STR-DE525/V515

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model
PX Model
STR-DE525
Chinese Model
STR-V515

Photo : STR-DE525

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SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
With 8 ohm loads, both channels driven, from 20 - 20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.09% total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

POWER OUTPUT

Stereo mode (8 ohms 20 Hz - 20 kHz, THD 0.09%) 100 W + 100 W

Surround mode
(8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center[a)]: 100 W
Rear[a)]: 100 W/ch

a) Depending on the sound field settings and the source, there may be no sound output.

5.1/DVD mode (8 ohms at 1 kHz, THD 0.8%)
Front: 100 W/ch
Center: 100 W
Rear: 100 W/ch

Dynamic power output
155 W + 155 W, 8 ohms
220 W + 220 W, 4 ohms

Frequency response
PHONO: RIAA equalization curve ±0.5 dB
CD, TAPE/MD, VIDEO 1, 2,:
10 Hz - 50 kHz +0.5/–2 dB (with sound field, tone, and bass booster bypassed)

Inputs
PHONO:
Sensitivity: 1.5 mV
Impedance: 50 kilohms
S/N[b)]: 75 dB (A, 2.5 mV[c)])

CD:
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b)]: 82 dB (A, 150 mV[c)])
TAPE/MD, VIDEO, TV/DBS (TV/LD):
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b)]: 82 dB (A, 150 mV[c)])
5.1/DVD INPUT
Sensitivity: 150 mV
Impedance: 50 kilohms
S/N[b)]: 82 dB (A, 150 mV[c)])

b) 78' IHF
c) Weighted network, input level

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

Outputs
AUDIO OUT:
Voltage: 150 mV
Impedance: 10 kilohms
WOOFER:
Voltage: 2 V
Impedance: 1 kilohm
PHONES:
Accepts low- and high-impedance headphones

BASS BOOST +10 dB at 70 Hz

TONE ±10 dB at 100 Hz and 10 kHz

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals
75 ohms, unbalanced

Sensitivity Mono: 18.3 dBf, 4.5 µV
Stereo: 38.3 dBf, 45 µV

Usable sensitivity
11.2 dBf, 2 µV (IHF)

S/N Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response
30 Hz - 15 kHz +0.5/−2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range With 10-kHz tuning scale:
530 - 1710 kHz (USA and Canada only[d])
530 - 1610 kHz (all other countries except Singapore, Malaysia, and Australia)
With 9-kHz tuning scale:
531 - 1710 kHz (USA and Canada only)
531 - 1602 kHz (all other countries[d])

Antenna Loop antenna

Usable sensitivity
50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion
0.5 % (50 mV/m, 400 kHz)

Selectivity At 10 kHz: 40 dB
At 9 kHz: 35 dB

d) You can change the AM tuning scale to 9 kHz (USA and Canada only) or to 10 kHz (all countries except USA, Canada, Singapore, Malaysia, and Australia). After tuning in any AM station, turn off the receiver. Press down the TUNING + or PRESET TUNING + button and press the I/⏻ button. All preset stations will be reset to their factory settings when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

Video section

Inputs 1 Vp-p 75 ohms

Outputs 1 Vp-p 75 ohms

General

System
Tuner section:
PLL quartz-locked digital synthesizer system
Preamplifier section:
Low-noise NF type equalizer
Power amplifier section:
Pure-complementary SEPP

Power requirements
USA and Canada:
120 V AC, 60 Hz
Australia:
240 V AC, 50 Hz
Singapore and Malaysia:
230 V AC, 50/60 Hz
All other countries:
120/240/220 V AC selectable, 50/60 Hz

Power consumption
Canada: 400 VA
All other countries:
250 W

AC outlets Australia, Singapore, and Malaysia:
1 switched, maximum 100 W
All other countries:
2 switched, total 100 W

Dimensions 430 × 157.5 × 370 mm ($17 \times 6^{1}/_{4} \times 14^{5}/_{8}$ inches) including projecting parts and controls

Mass (approx.)
9.1 kg (20 lb 1 oz)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

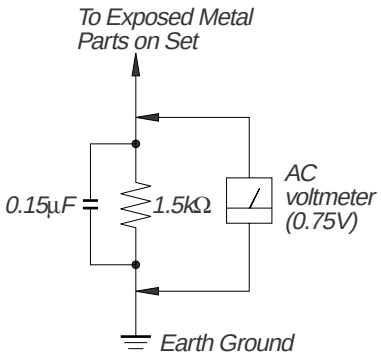

Fig. A. Using an AC voltmeter to check AC leakage.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]

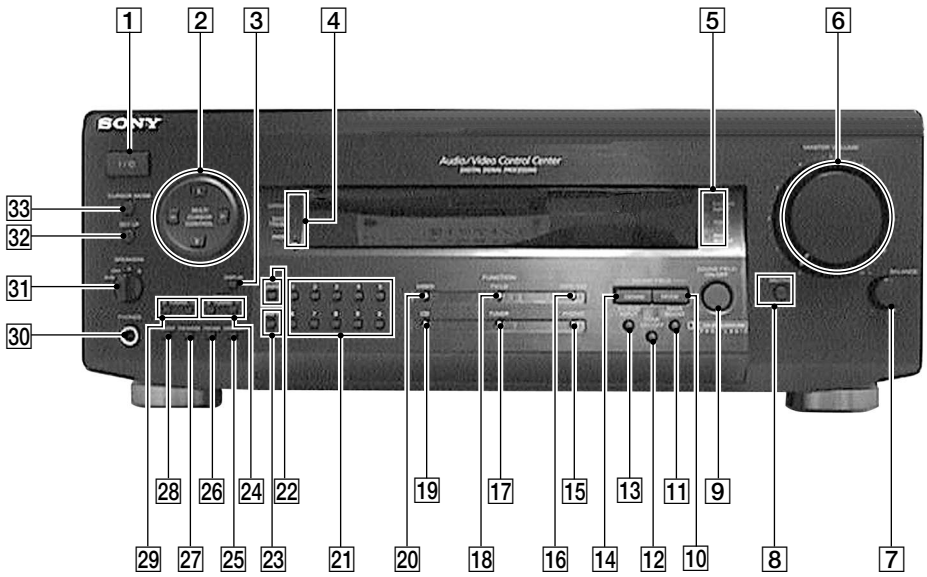


Photo : STR-DE525

1 POWER switch
2 MULTI CURSOR CONTROL
3 DISPLAY REAR LEVEL +, – buttons
4 SURROUND, BASS/TREBLE, INDEX indicators
5 5.1/DVD, TONE, BASS BOOST indicators
6 MASTER VOLUME control
7 BALANCE control
8 MUTING button
9 SOUND FIELD ON/OFF button
10 SOUND FIELD MODE button
11 BASS BOOST button
12 TONE ON/OFF button
13 5.1/DVD INPUT button
14 SOUND FIELD GENRE button
15 PHONO FUNCTION button
16 TAPE/MD FUNCTION button
17 TV/LD FUNCTION button
18 TUNER FUNCTION button
19 VIDEO FUNCTION button
20 CD FUNCTION buttons
21 Numeric buttons
22 DIRECT TUNING button
23 SHIFT buttons
24 PRESET TUNING +, – buttons
25 MEMORY button
26 FM/AM button
27 FM MODE button
28 SLEEP button
29 TUNING +, – buttons
30 PHONES jack
31 SPEAKERS A, B switches
32 SET UP button
33 CURSOR MODE button

[REAR PANEL]

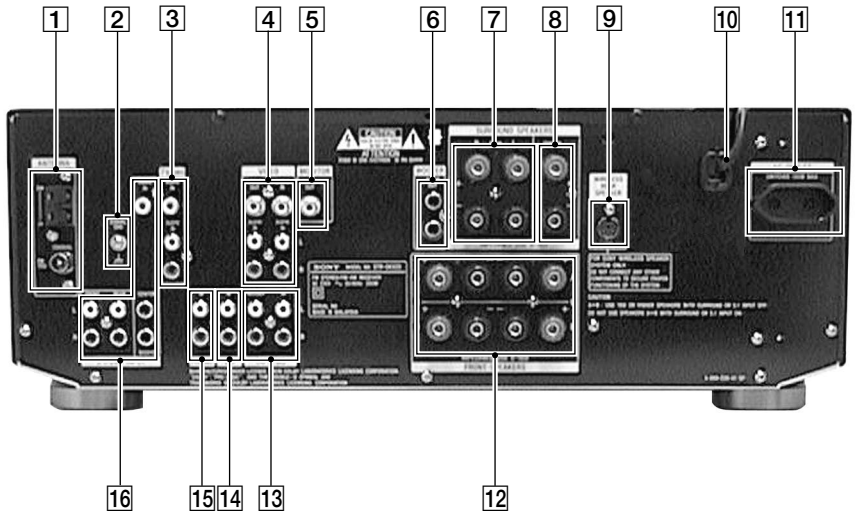


Photo : STR-DE525

1 ANTENNA (FM/AM)
2 ⏚ SIGNAL GND
3 TV/DBS
4 VIDEO
5 MONITOR
6 WOOFER
7 SURROUND SPEAKERS (REAR)
8 SURROUND SPEAKERS (CENTER)
9 WIRELESS REAR SPEAKER
10 AC power cord
11 AC OUTLET
12 FRONT SPEAKERS (A/B)
13 TAPE/MD
14 CD
15 PHONO
16 5.1/DVD INPUT

SECTION 2
TEST MODE

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  While depressing the TUNER and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. The software version is displayed.

KEY TEST MODE

* All keys are tested.
* Procedure:
  While depressing the CD and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message REST40 appears. When the respective keys are pressed one after another, the number decrements in the order of REST39, REST38, and so on.

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the TV/LD and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another.

FACTORY SET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the VIDEO and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message FACTORY appears and the present contents are reset to the default values.

ALL CLEAR MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the VIDEO and the TAPE/MD buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message INITIAL appears and initialization is performed.

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the SOUND FIELD ON/OFF button, press the power [I/⏻] button to turn on the main power. The message S. F. CLEAR appears and initialization is performed.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

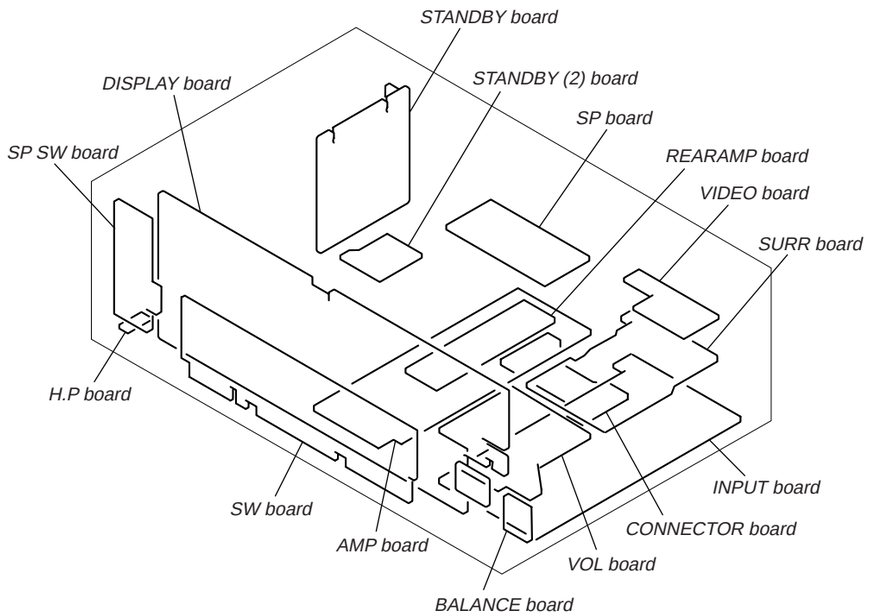
* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET+ button, press the power [I/⏻] button to turn on the main power. Either the message 9k STEP or 10k STEP appears. Select the desired step.

DEMO MODE

* Continuous demonstration starts when the demo mode is activated.
* Procedure:
  While depressing the CURSOR MODE button, press the power [I/⏻] button to turn on the main power. The message MUSIC DEMO appears and demonstration is performed automatically.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

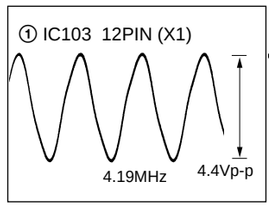
- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
- Abbreviation
  CND : Canadian
  AUS : Australian
  CH : Chinese
  MY : Malaysia
  SP : Singapore
  EA : Saudi Arabia

For printed wiring boards.
Note:

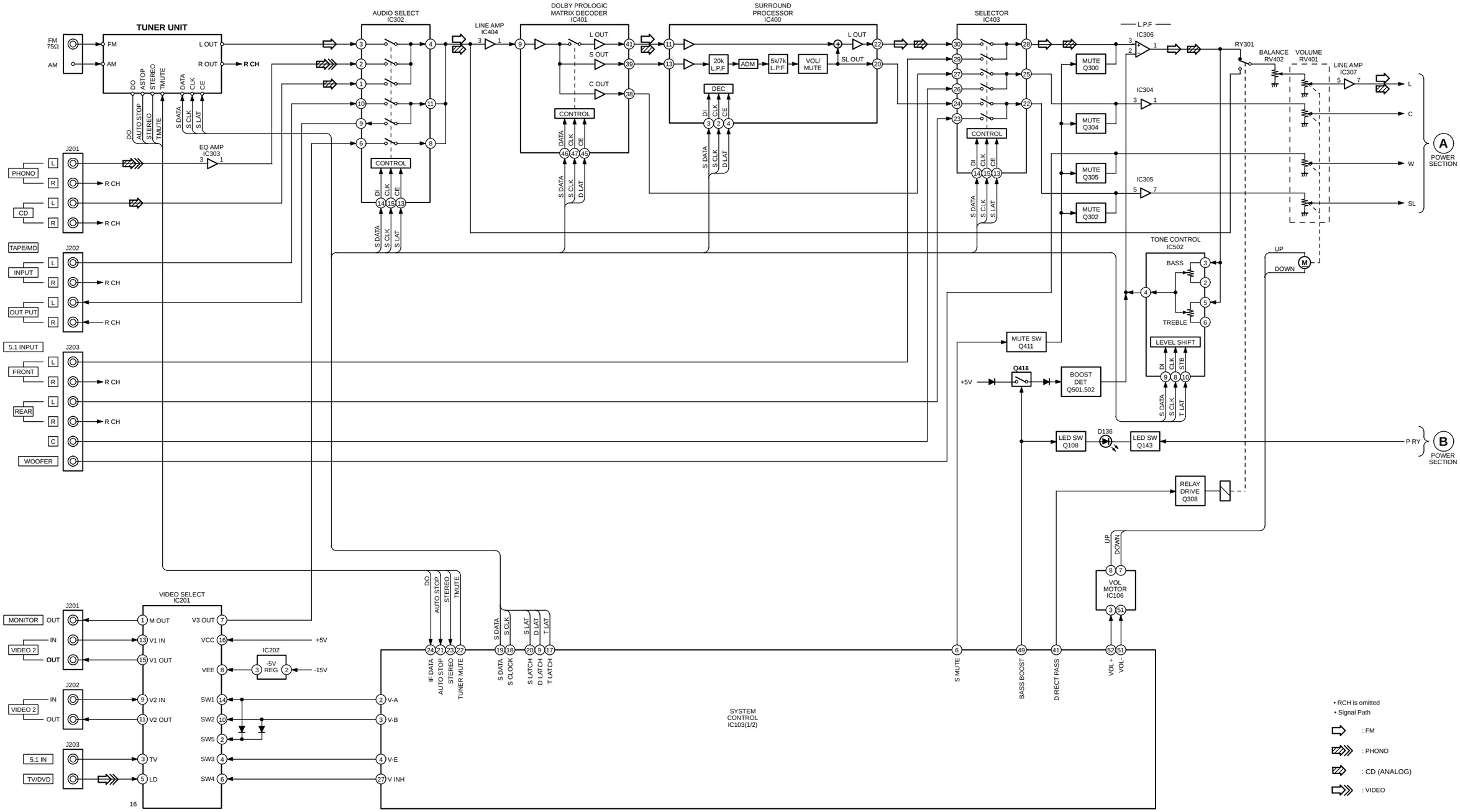
- ○——— : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

• Waveform

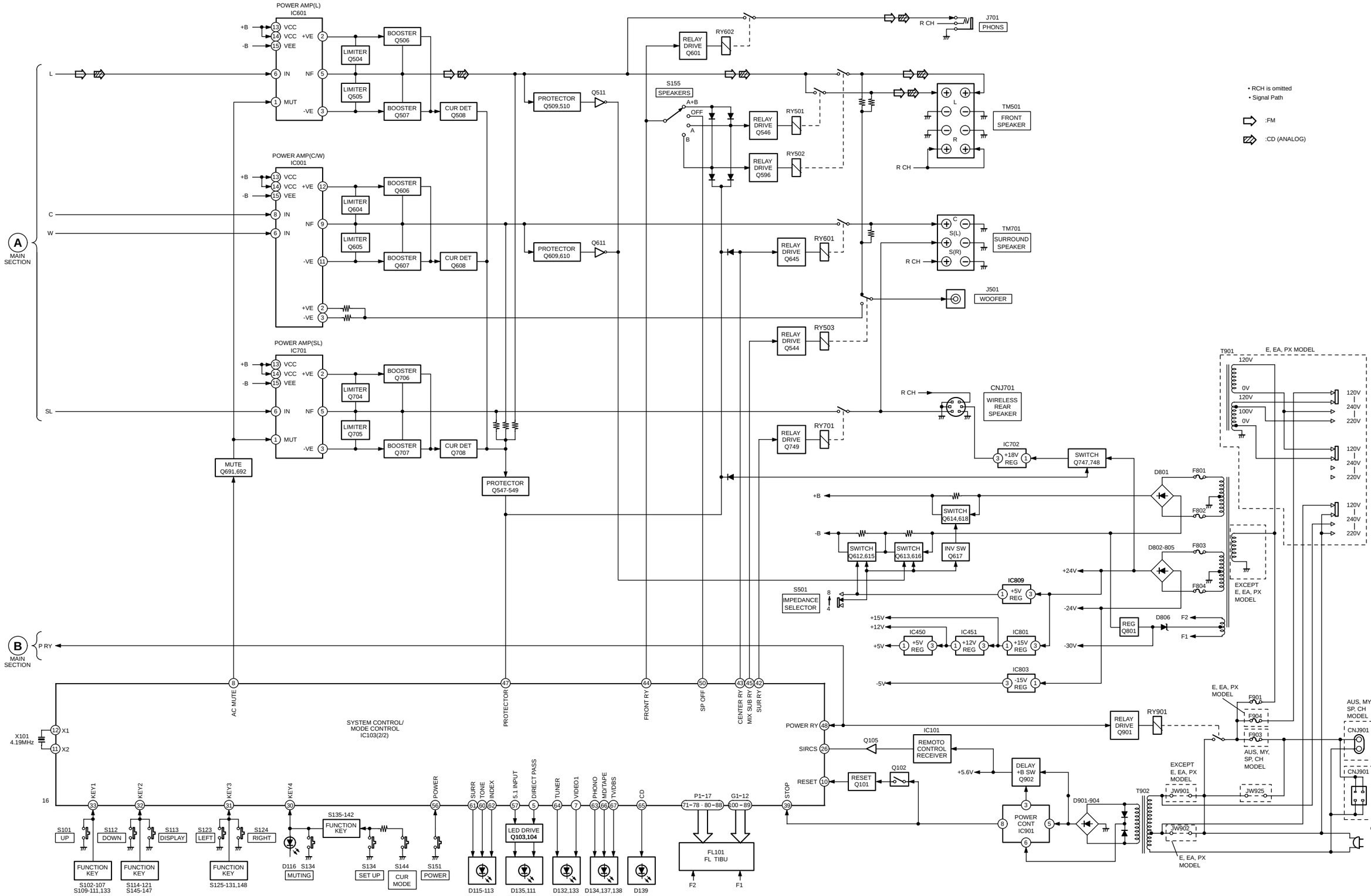
DISPLAY BOARD



3-2. BLOCK DIAGRAM –MAIN SECTION–



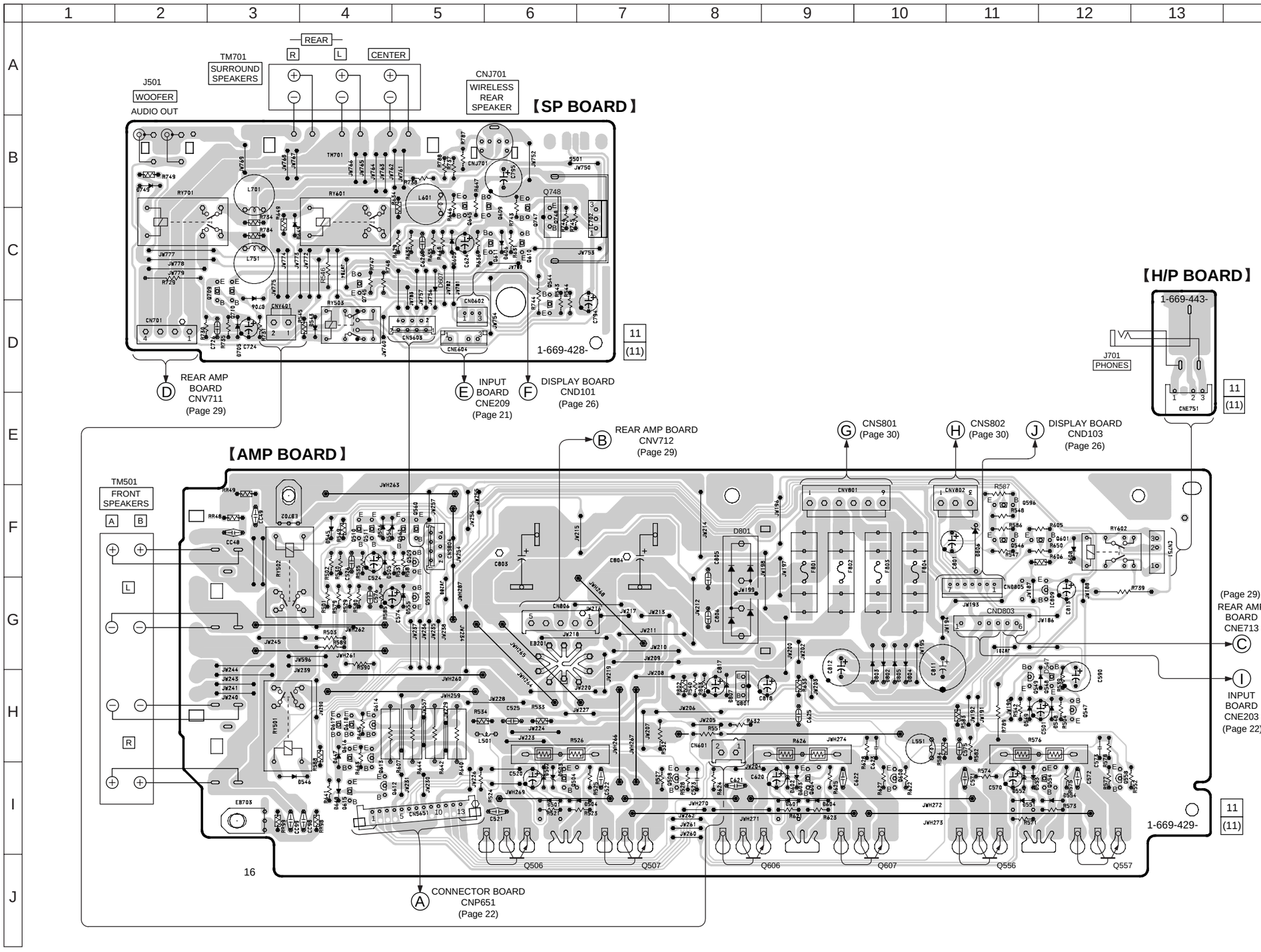
3-3. BLOCK DIAGRAM –POWER SECTION–



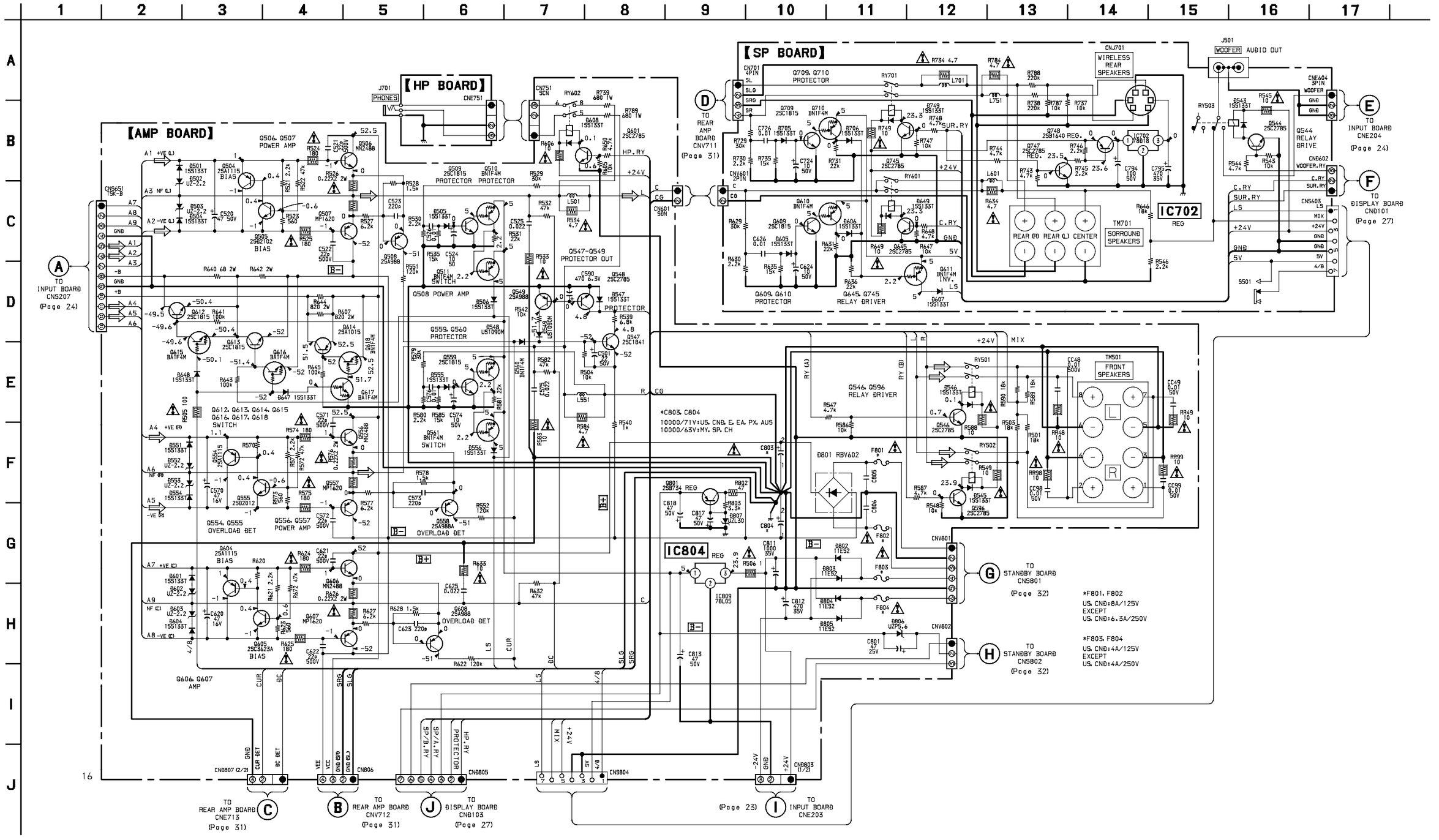
3-4. PRINTED WIRING BOARD — AMP SECTION —

• Semiconductor Location

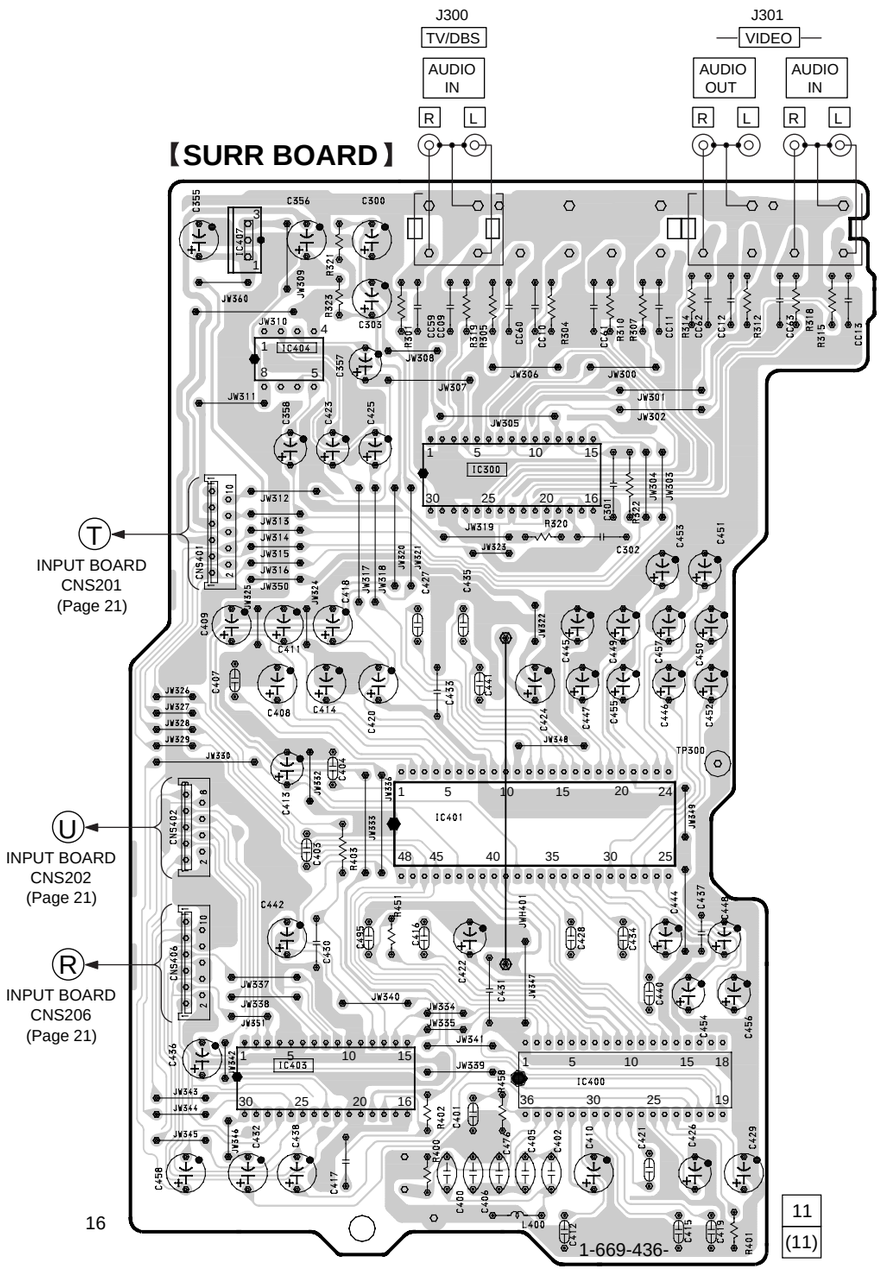
Ref. No.	Location	Ref. No.	Location
D501	I-6	Q504	I-6
D502	I-6	Q506	J-6
D503	I-6	Q507	J-6
D504	I-7	Q508	I-8
D505	F-4	Q509	F-5
D506	F-4	Q510	F-4
D543	D-4	Q511	F-4
D545	F-4	Q544	C-6
D546	I-3	Q546	F-11
D547	H-11	Q547	H-12
D548	H-11	Q548	H-12
D549	H-11	Q549	H-11
D551	I-11	Q554	I-11
D552	I-11	Q556	J-11
D553	I-11	Q557	J-12
D554	I-12	Q558	I-12
D555	G-4	Q559	G-5
D556	F-4	Q560	F-5
D601	I-9	Q561	F-5
D602	I-9	Q596	F-11
D603	I-9	Q601	F-11
D604	I-9	Q604	I-9
D605	C-5	Q606	J-8
D606	C-6	Q607	J-10
D607	C-5	Q608	I-10
D608	F-12	Q609	C-6
D647	H-4	Q610	C-6
D648	I-4	Q611	C-6
D649	C-3	Q612	I-4
D705	D-3	Q613	H-4
D706	D-3	Q614	H-34
D749	B-2	Q615	I-4
D801	F-8	Q616	H-4
D802	G-10	Q617	H-4
D803	G-10	Q618	H-4
D804	G-10	Q645	C-5
D805	G-10	Q709	C-3
D806	F-11	Q710	C-3
D807	H-8	Q745	C-4
		Q747	C-6
IC702	C-7	Q748	C-6
IC809	G-11	Q801	H-8

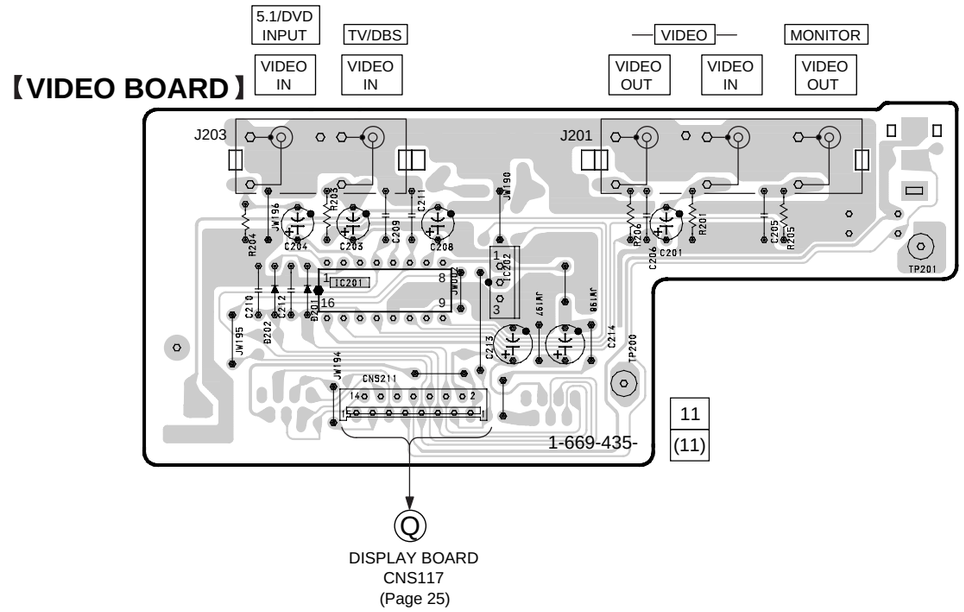


3-5. SCHEMATIC DIAGRAM — AMP SECTION —



3-6. PRINTED WIRING BOARD — VIDEO SECTION —

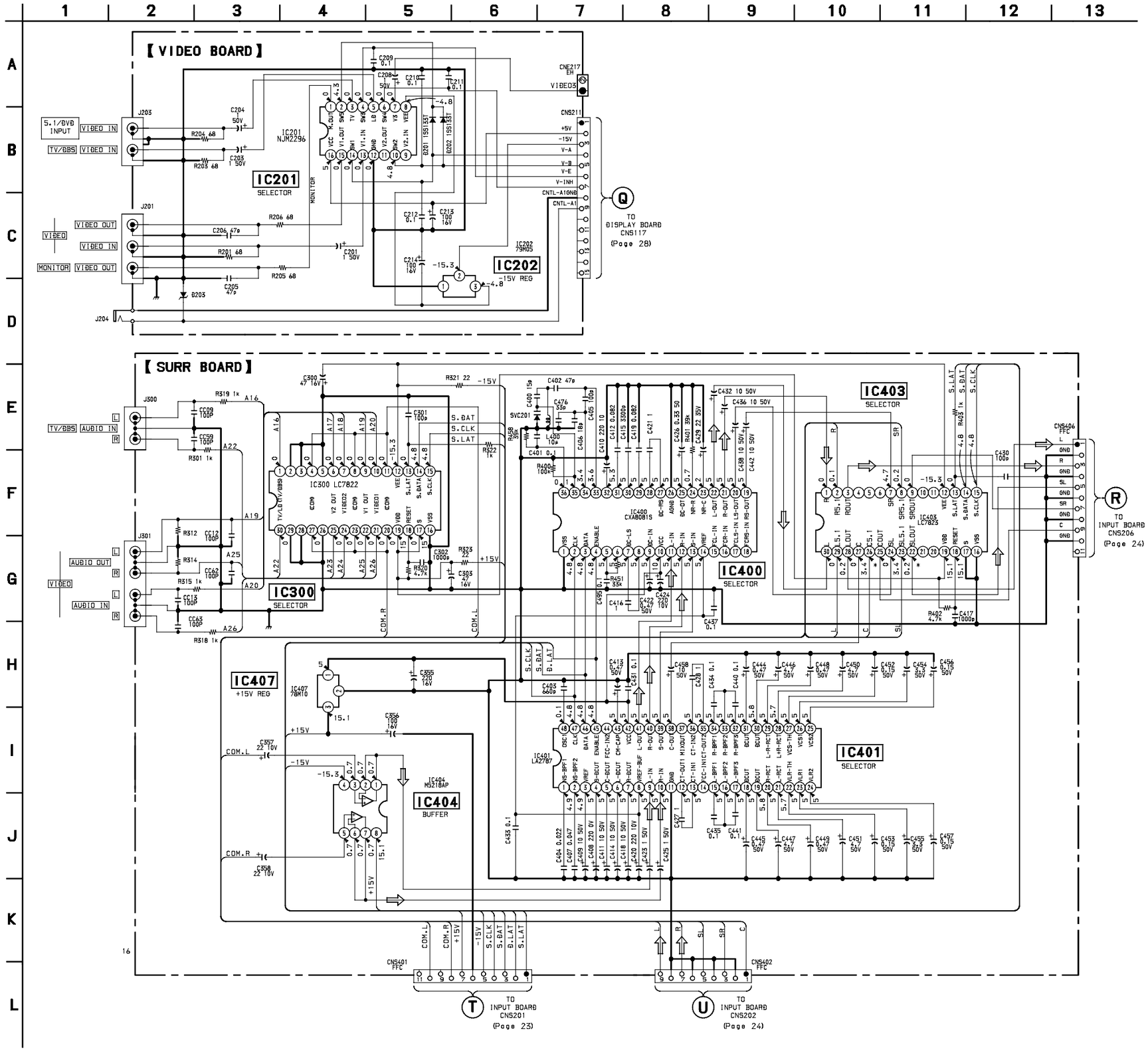




- **Semiconductor Location**

Ref. No.	Location
D201	C-9
D212	C-9
IC201	C-10
IC202	C-10
IC300	D-4
IC400	H-5
IC401	F-4
IC403	H-3
IC404	C-3
IC407	C-3

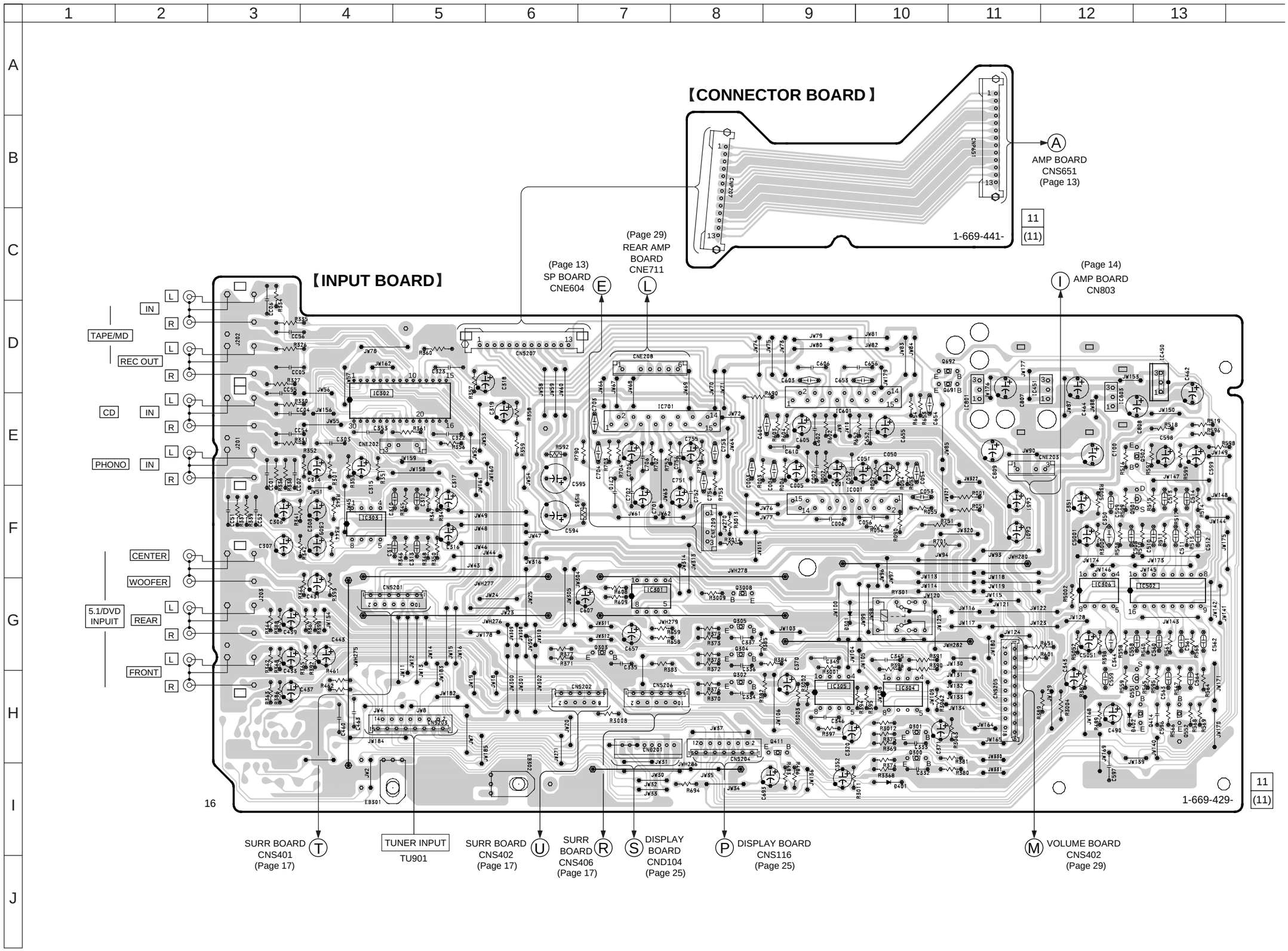
3-7. SCHEMATIC DIAGRAM — VIDEO SECTION —



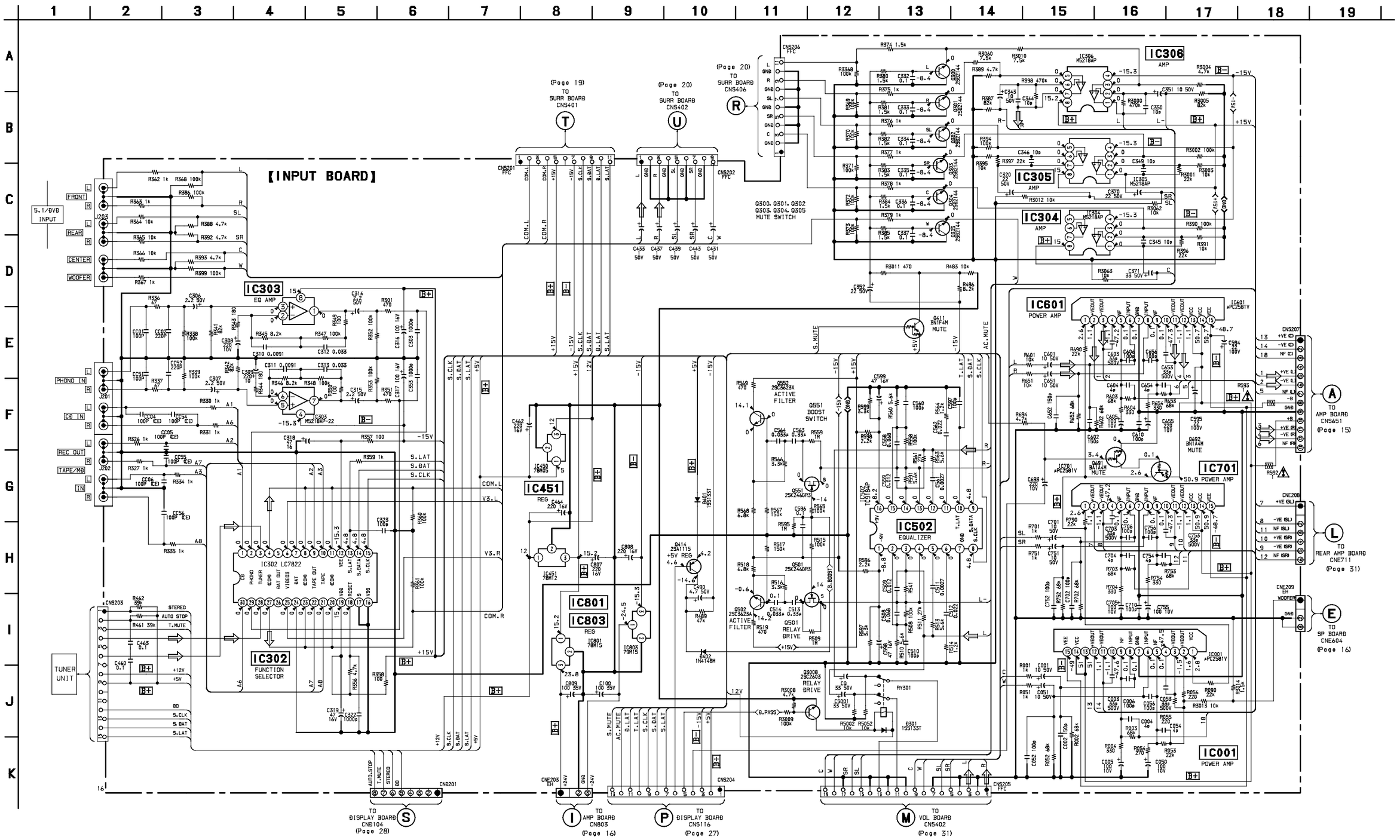
3-8. PRINTED WIRING BOARD — INPUT SECTION —

• **Semiconductor Location**

Ref. No.	Location
D301	G-9
D401	I-10
D402	H-12
IC001	F-9
IC301	G-7
IC302	E-4
IC303	F-4
IC304	H-10
IC305	H-9
IC306	G-12
IC450	D-13
IC451	D-11
IC502	G-13
IC601	E-9
IC701	E-7
IC801	D-11
IC803	D-12
Q300	H-10
Q301	H-10
Q302	H-8
Q303	G-7
Q304	G-8
Q305	G-8
Q411	H-9
Q414	H-12
Q501	F-12
Q502	E-12
Q551	H-12
Q552	H-13
Q691	D-10
Q692	D-10
Q3008	G-8



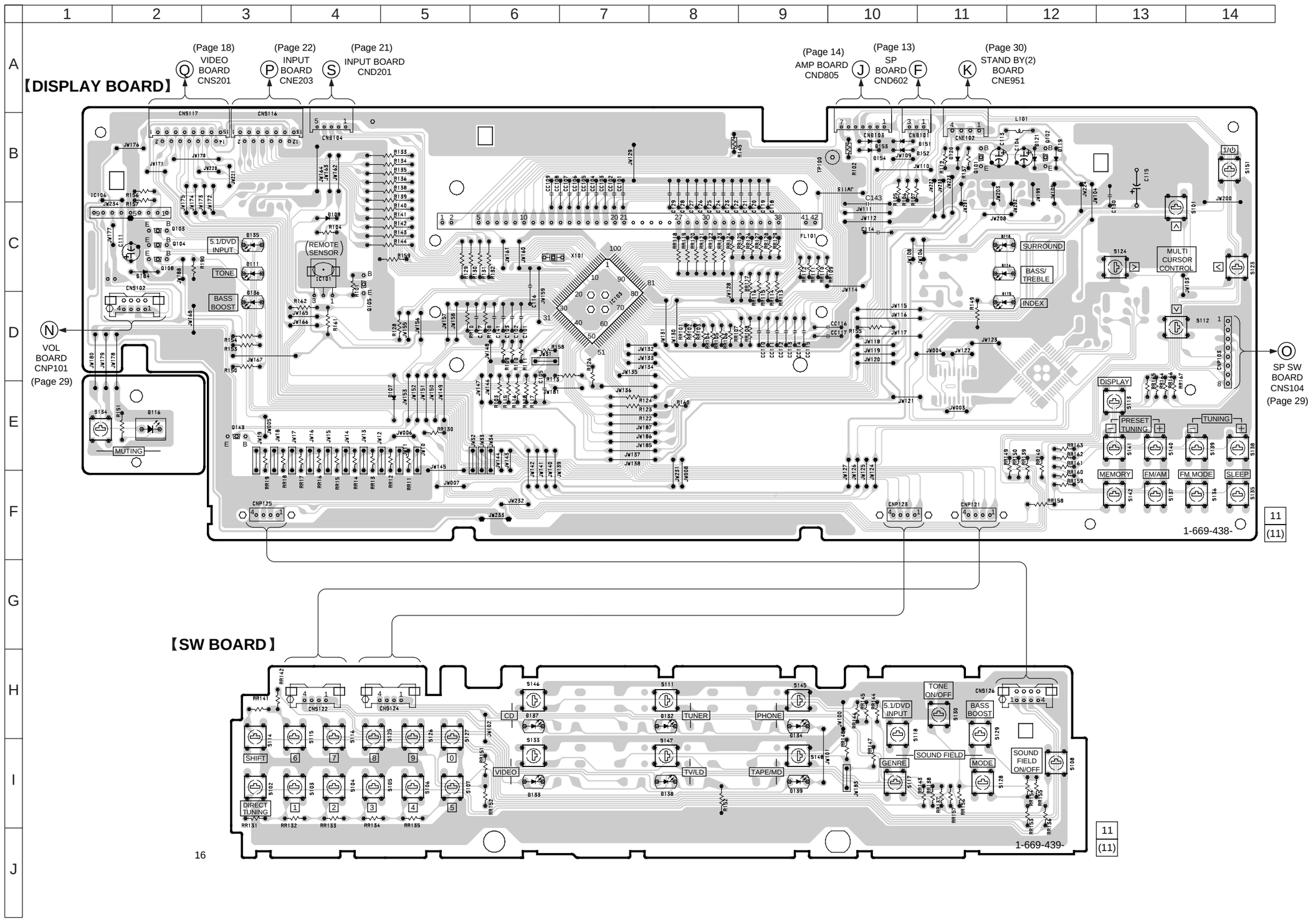
3-9. SCHEMATIC DIAGRAM — INPUT SECTION —



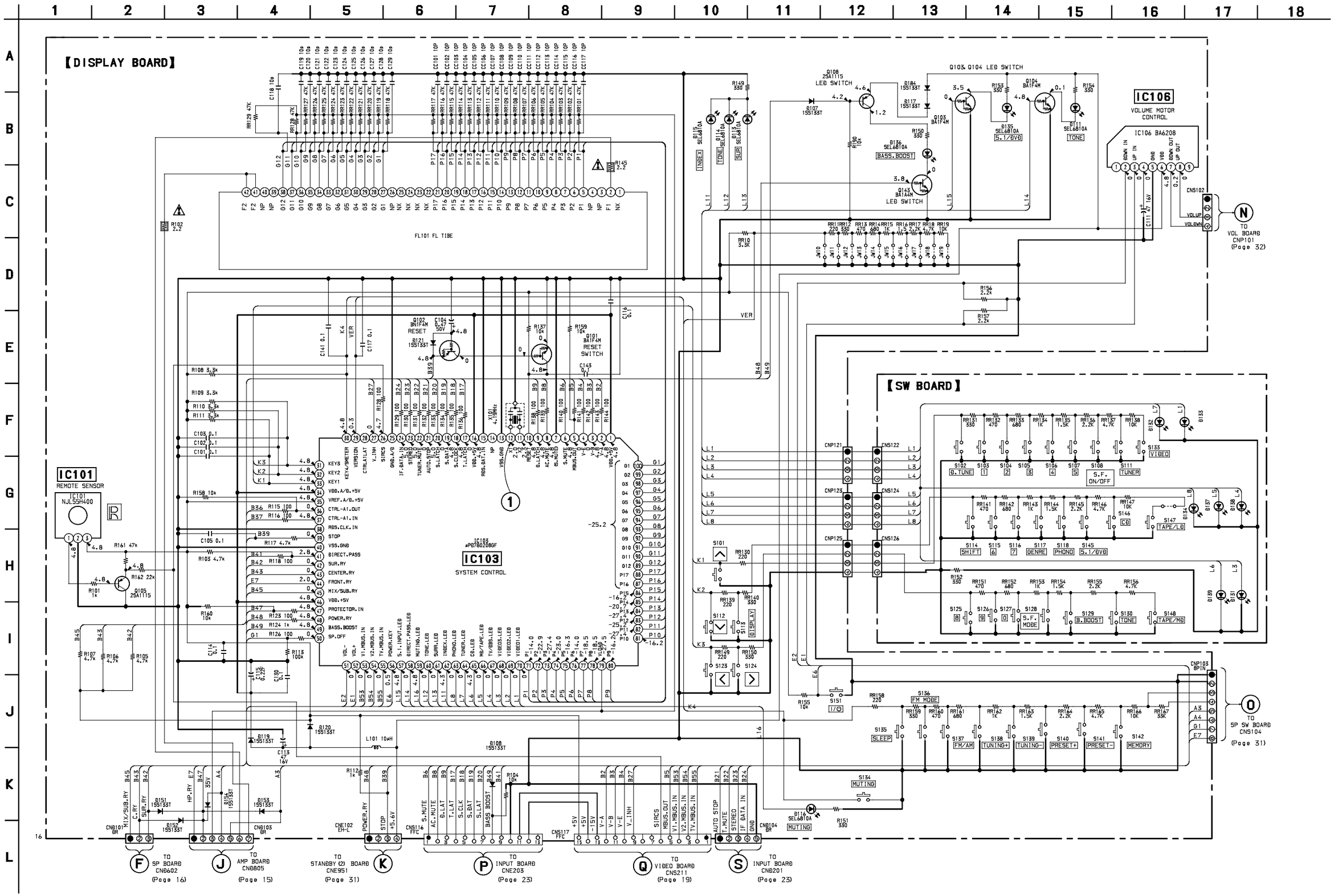
3-10. PRINTED WIRING BOARD— DISPLAY SECTION —

• **Semiconductor Location**

Ref. No.	Location
D107	E-5
D108	C-4
D111	C-3
D113	C-12
D114	C-12
D115	D-12
D116	E-2
D119	B-12
D120	B-11
D121	B-12
D132	H-8
D133	I-6
D134	H-9
D135	C-3
D136	D-3
D137	H-6
D138	I-8
D139	I-9
D151	B-10
D152	B-10
D153	B-10
D154	B-10
D184	C-2
IC101	C-4
IC103	D-7
IC106	C-1
Q101	B-11
Q102	B-12
Q103	C-2
Q104	C-2
Q105	D-4
Q108	C-2
Q143	E-3



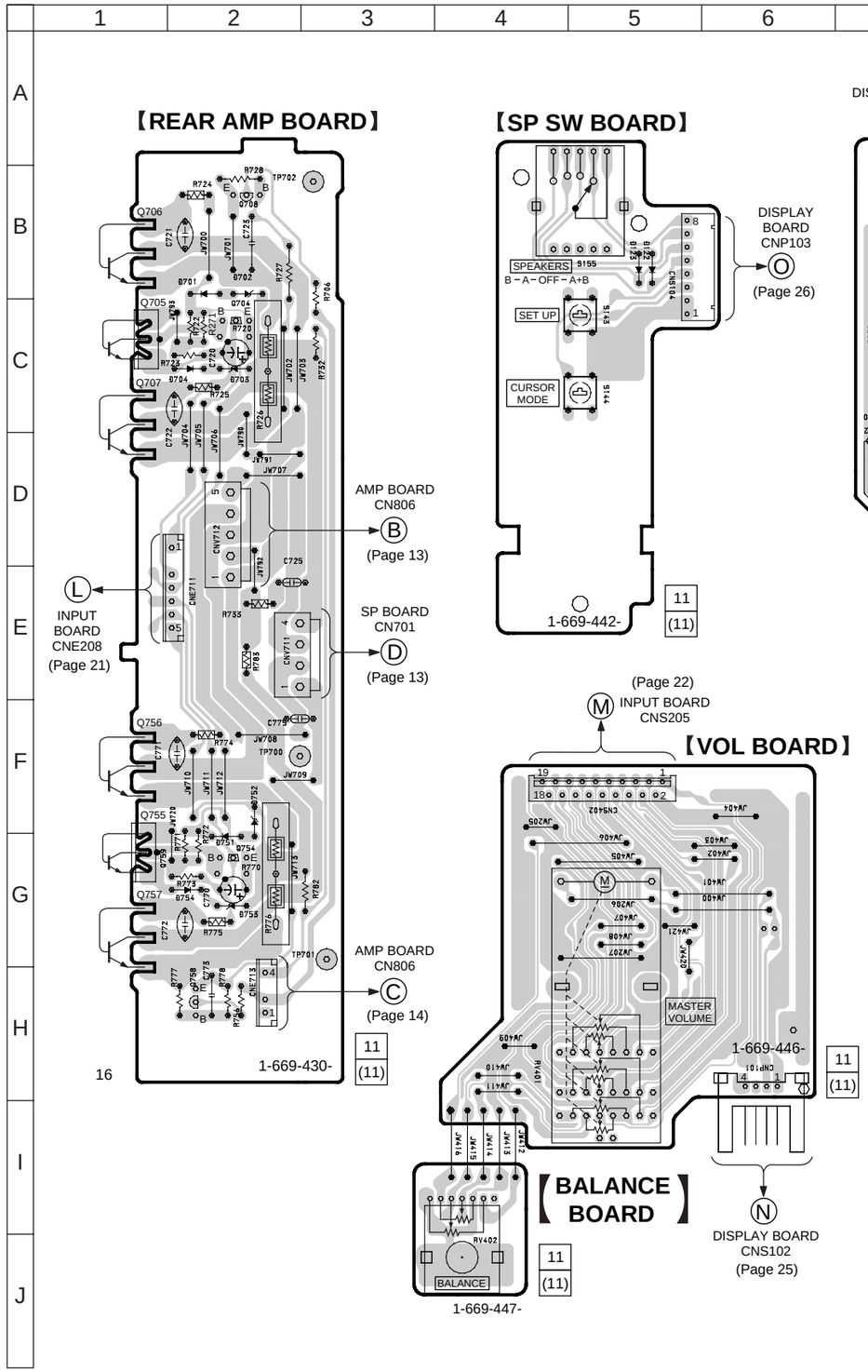
3-11. SCHEMATIC DIAGRAM — DISPLAY SECTION — • See page 8 for Waveform.



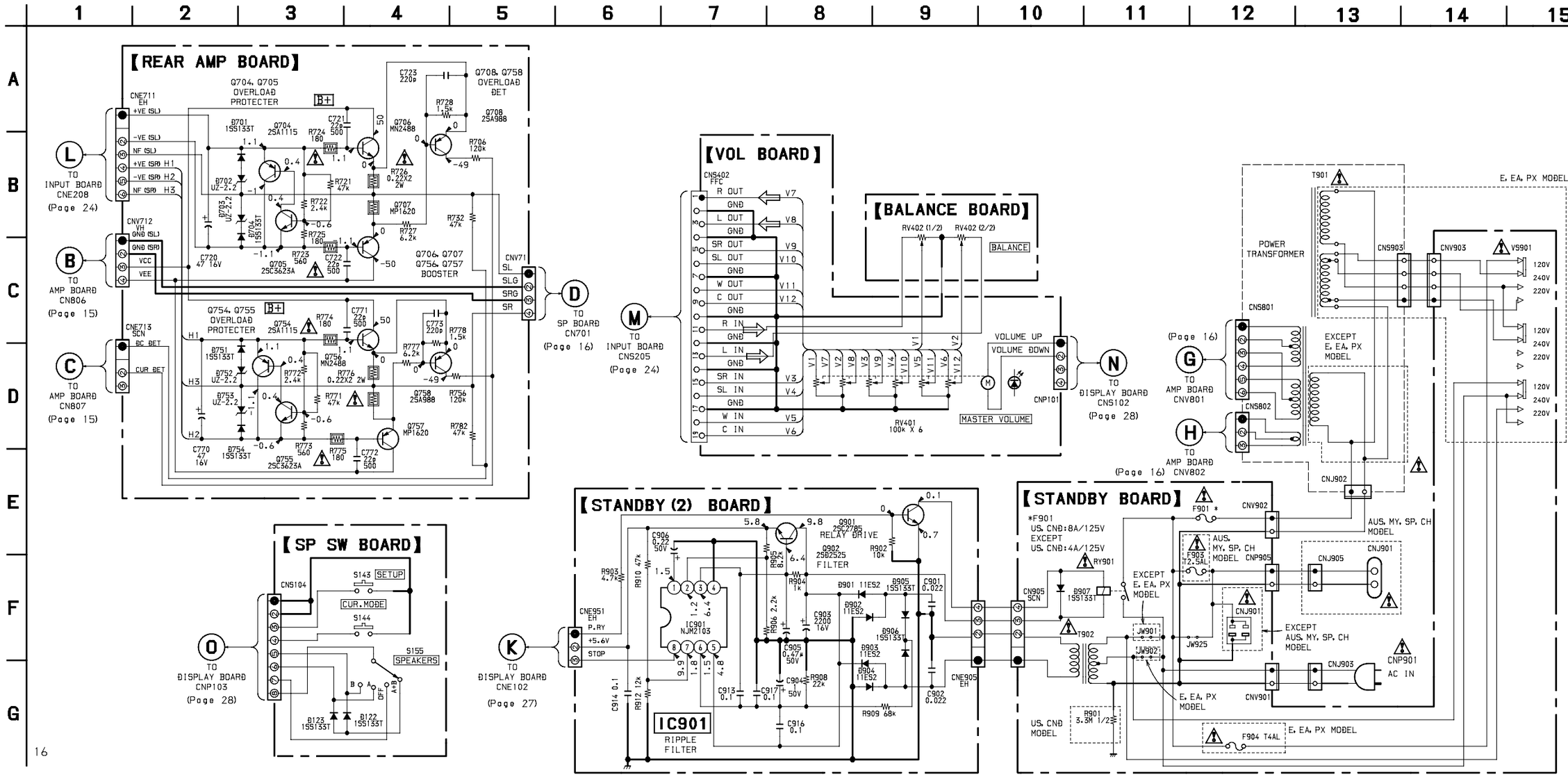
3-12. PRINTED WIRING BOARD— POWER SECTION —

• **Semiconductor Location**

Ref. No.	Location
D122	B-5
D123	B-5
D543	D-4
D605	C-5
D606	C-6
D607	C-5
D649	C-3
D701	B-2
D702	B-2
D703	C-2
D704	C-2
D705	D-3
D706	D-3
D749	B-2
D751	G-2
D752	F-2
D753	G-2
D754	G-2
D901	B-8
D902	C-8
D903	B-8
D904	C-8
D905	C-8
D906	C-8
IC702	C-7
IC901	C-7
Q544	C-6
Q609	C-6
Q610	C-6
Q611	C-6
Q645	C-5
Q704	C-2
Q705	C-1
Q706	B-1
Q707	C-1
Q708	B-2
Q709	C-3
Q710	C-3
Q745	C-4
Q747	C-6
Q748	C-6
Q754	G-2
Q755	G-1
Q756	F-1
Q757	G-1
Q758	H-2
Q901	B-8
Q902	C-8



3-13. SCHEMATIC DIAGRAM — POWER SECTION —



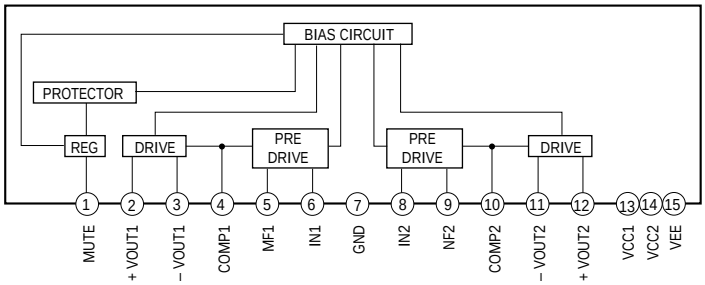
- **IC103 uPD780208FGF**

Pin No.	Pin Name	I/O	Description
1	VDD	—	Power Supply (+5 V)
2	P37	O	Video IC SW1
3	P36/BUZ	O	Video IC SW2
4	P35/PCL	O	Video IC SW3
5	P34/TI2	O	Ground through resister
6	P33/TI1	O	S Mute
7	P32/TO2	I	Not used (ground)
8	P31/TO1	O	A-class mute
9	P30/TO0	O	Dolby latch
10	RESET	I	System reset
11	X2	—	System clock (4.19 MHz)
12	X1	I	System clock (4.19 MHz)
13	IC (VPP)	—	= VSS (0 V)
14	XT2	—	Open
15	P04/XT1	I	Ground
16	VDD	—	+5 V
17	P27/SCK0	O	Tone latch
18	P26/SO0/SB1	O	Serial clock
19	P25/SI0/SB0	O	Serial data
20	P24/BUSY	O	Serial latch
21	P23/STB	I	Auto stop
22	P22/SCK1	O	Tuner mute
23	P21/SO1	I	Stereo
24	P20/SI1	I	Tuner data in
25	AVSS	—	A/D ground (0 V)
26	P17/ANI7	I	SIRCS input
27	P16/ANI6	O	Video IC SW4
28	P15/ANI5	O	Ground through resister
29	P14/ANI4	I	Version
30	P13/ANI3	I	A/D key 4
31	P12/ANI2	I	A/D key 3
32	P11/ANI1	I	A/D key 2
33	P10/ANI0	I	A/D key 1
34	AVDD	—	A/D power supply (+5 V)
35	AVref	I	A/D reference voltage (+5 V)
36	P03/INTP3	O	Ground through resister
37	P02/INTP2	I	Ground
38	P01/INTP1	I	Ground
39	P00/INTP0/T10	I	STOP
40	VSS	—	0 V
41	P74	O	Direct pass relay
42	P73	O	Surround relay
43	P72	O	Center relay
44	P71	O	Front relay
45	P70	O	Mix/sub relay
46	VDD	—	+5 V
47	P127/FIP52	I	Protector in
48	P126/FIP51	O	Power relay
49	P125/FIP50	O	Bass boost
50	P124/EIP49	I	Speaker off

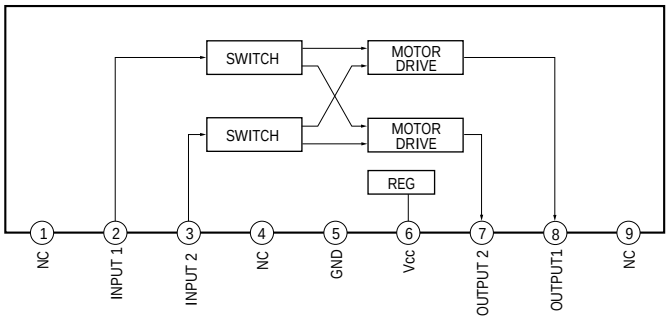
Pin No.	Pin Name	I/O	Description
51	P123/FIP48	O	Volume –
52	P122/EIP47	O	Volume +
53	P121/FIP46	I	Ground
54	P120/FIP45	I	Ground
55	P117/FIP44	I	Ground
56	P116/FIP43	I	Power switch in
57	P115/EIP42	O	5.1/DVD input LED
58	P114/FIP41	O	Tone LED
59	P113/FIP40	O	Muting LED
60	P112/FIP39	O	Bass/Treble LED
61	P111/FIP38	O	Surround LED
62	P110/FIP37	O	Index LED
63	P107/FIP36	O	PHONO LED
64	P106/FIP35	O	TUNER LED
65	P105/FIP34	O	TAPE/MD LED
66	P104/FIP33	O	CD LED
67	P103/FIP32	O	TV/LD LED
68	P102/FIP31	O	Ground through resister
69	P101/FIP30	O	Ground through resister
70	P100/FIP29	O	Video LED
71	P97/FIP28	O	P1
72	P96/FIP27	O	P2
73	P95/FIP26	O	P3
74	P94/FIP25	O	P4
75	P93/FIP24	O	P5
76	P92/FIP23	O	P6
77	P91/FIP22	O	P7
78	P90/FIP21	O	P8
79	Vload	—	FIP pull down (–35 V)
80	P87/FIP20	O	P9
81	P86/FIP19	O	P10
82	P85/FIP18	O	P11
83	P84/FIP17	O	P12
84	P83/FIP16	O	P13
85	P82/FIP15	O	P14
86	P81/FIP14	O	P15
87	P80/FIP13	O	P16
88	FIP12	O	P17
89	FIP11	O	12G
90	FIP10	O	11G
91	FIP9	O	10G
92	FIP8	O	9G
93	FIP7	O	8G
94	FIP6	O	7G
95	FIP5	O	6G
96	FIP4	O	5G
97	FIP3	O	4G
98	FIP2	O	3G
99	FIP1	O	2G
100	FIP0	O	1G

3-14. IC BLOCK DIAGRAMS

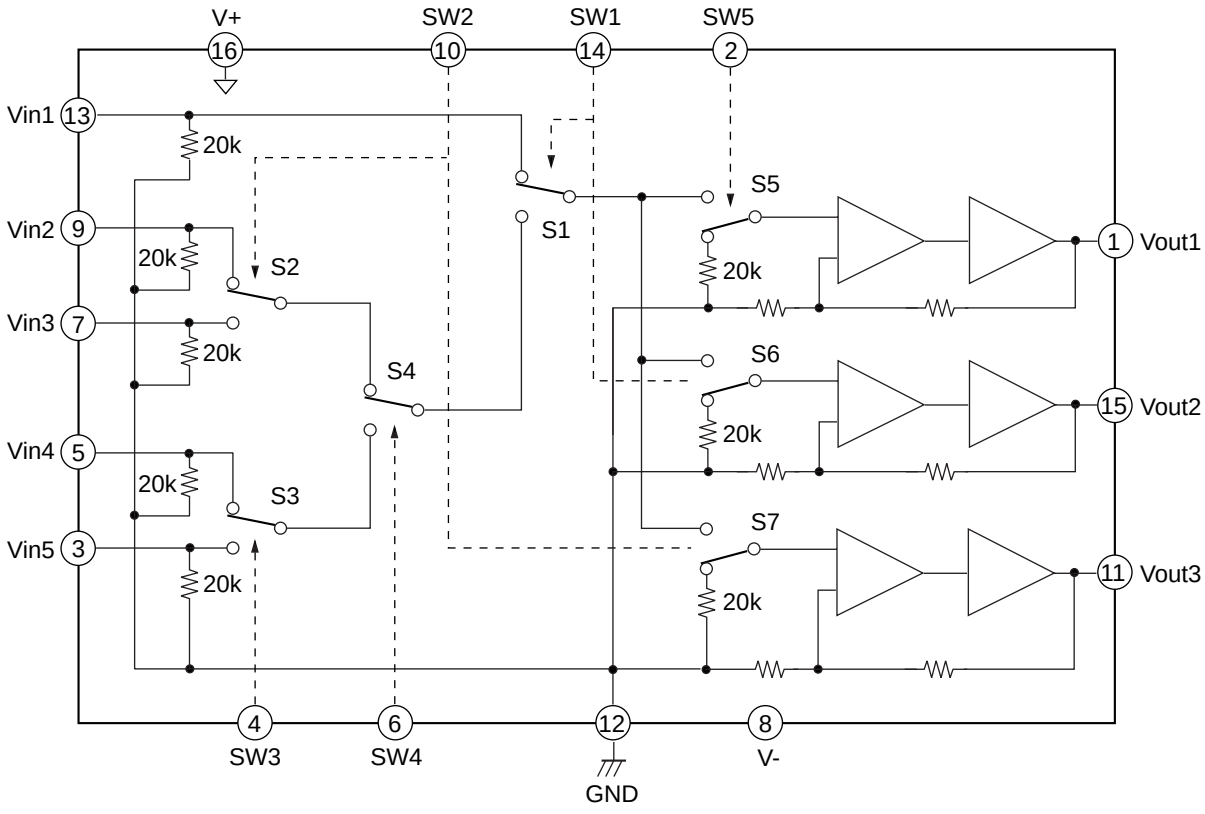
IC001 uPC2581V



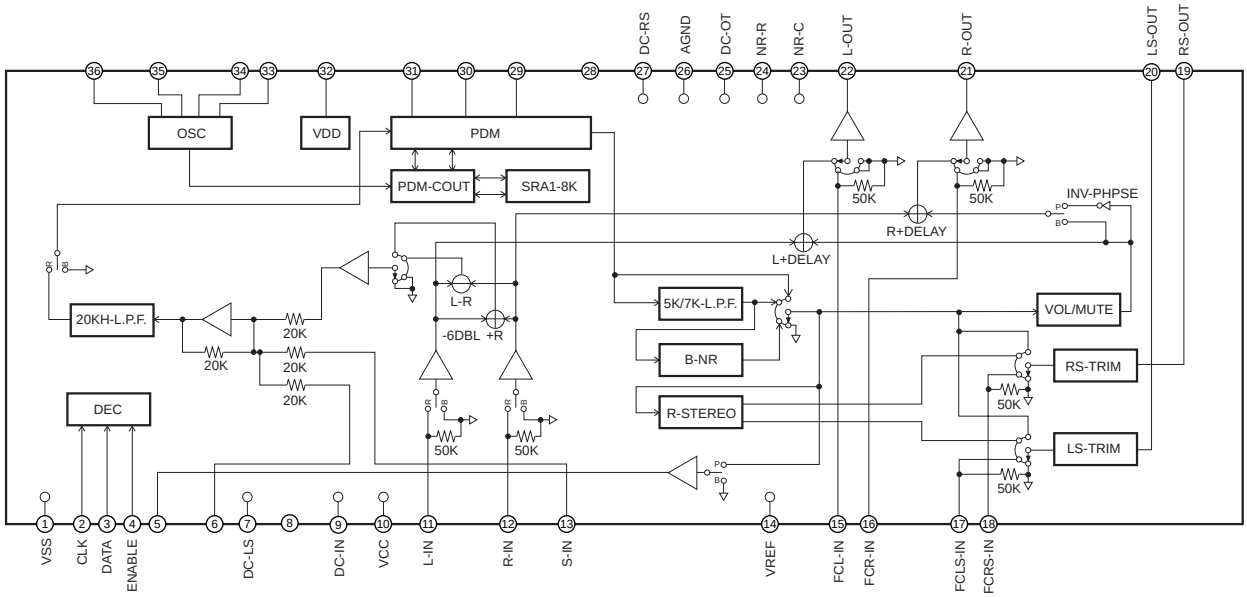
IC106 BA6208



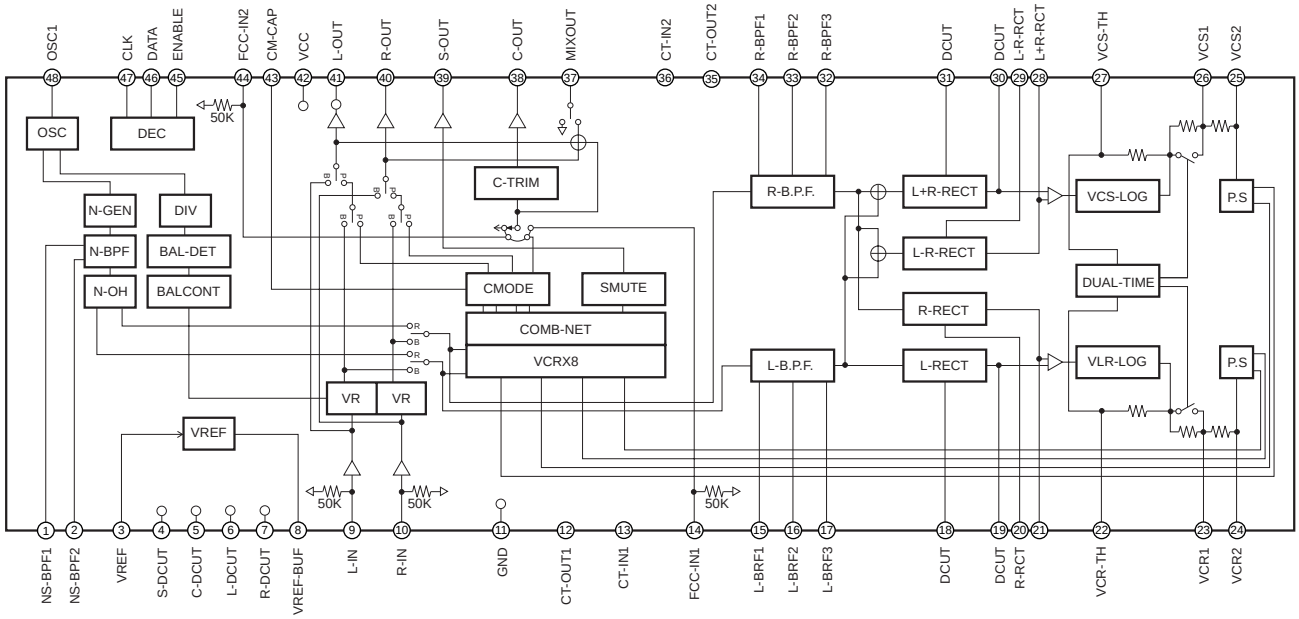
IC201 NJM2296D



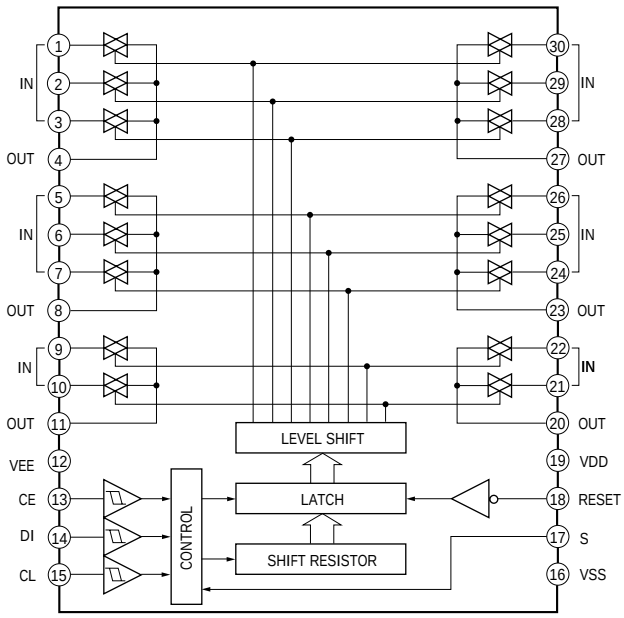
IC400 CXA8081S



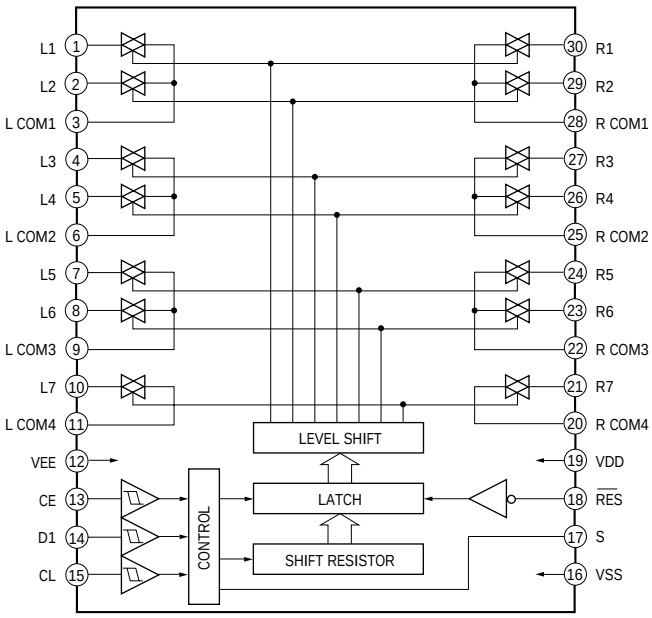
IC401 CXA8079S



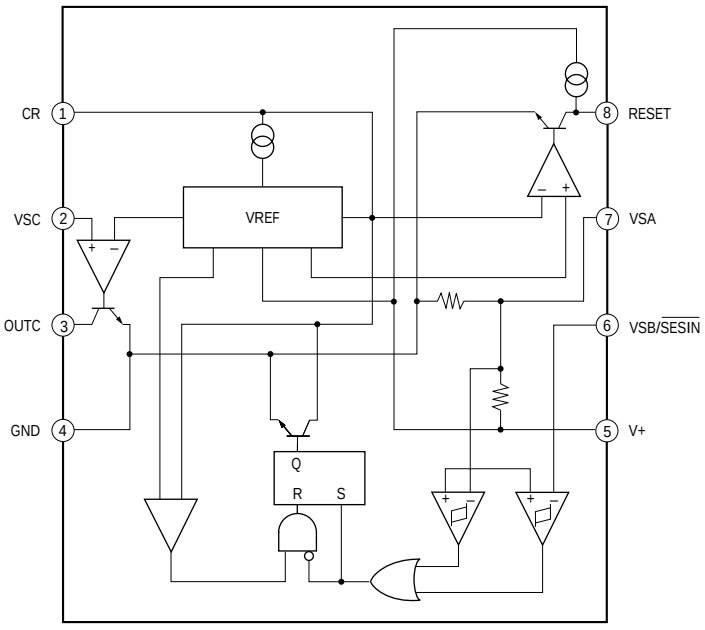
IC302 LC7822



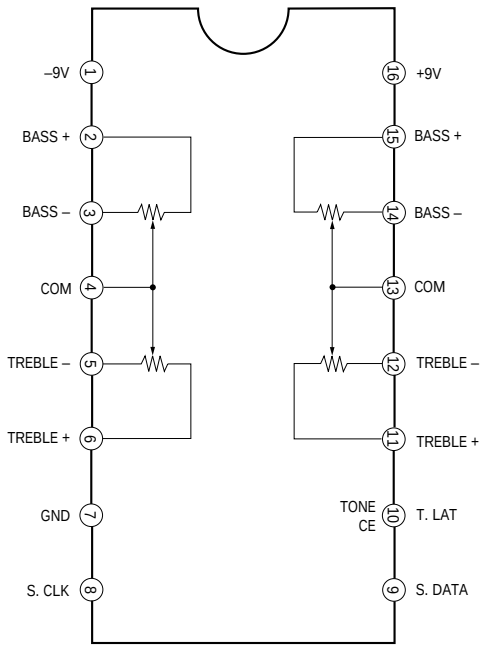
IC403 LC7823



IC901 NJM2103D



IC502 TC9184P



SECTION 4
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

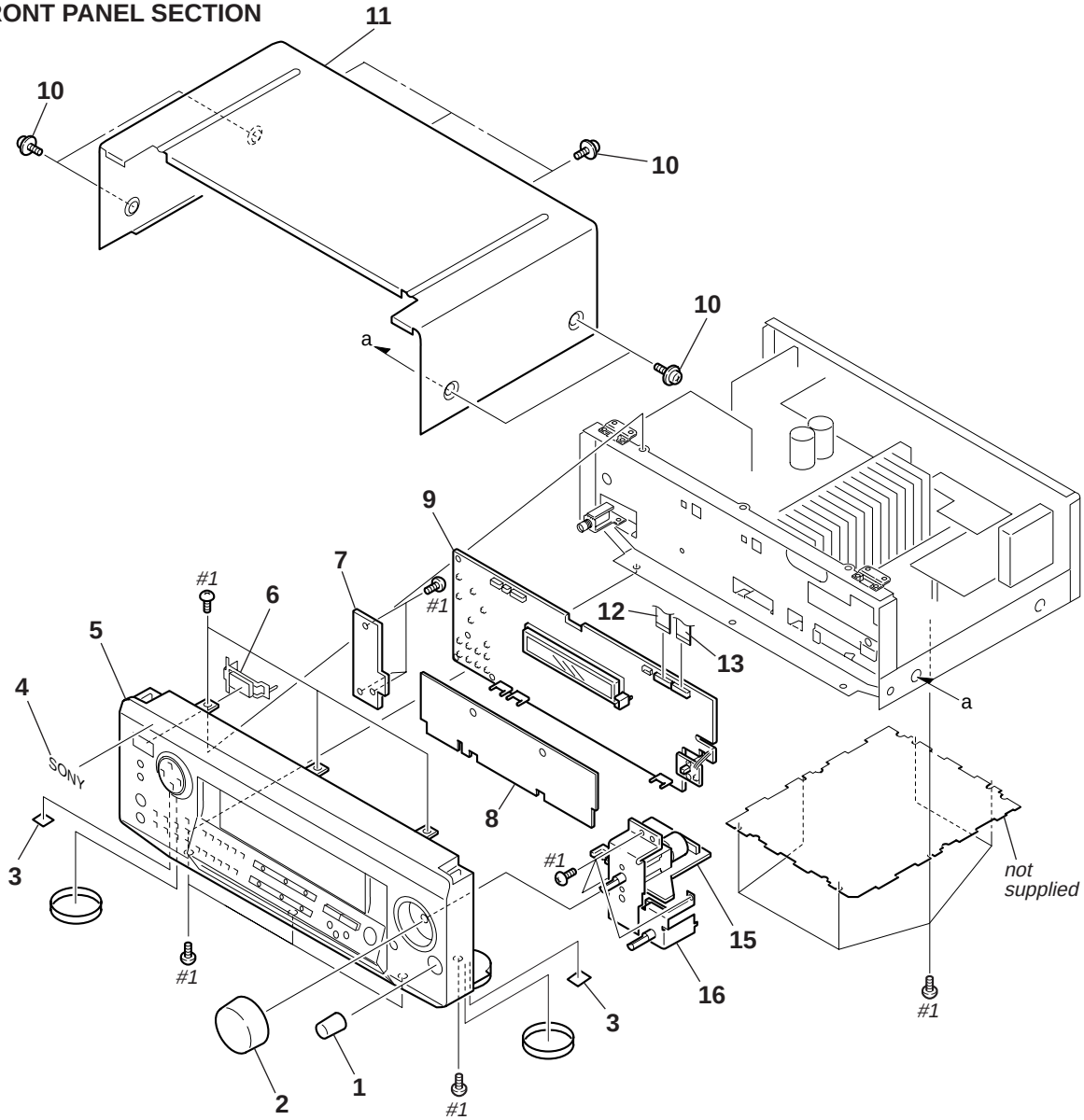
CND	: Canadian	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese	EA	: Saudi Arabia

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

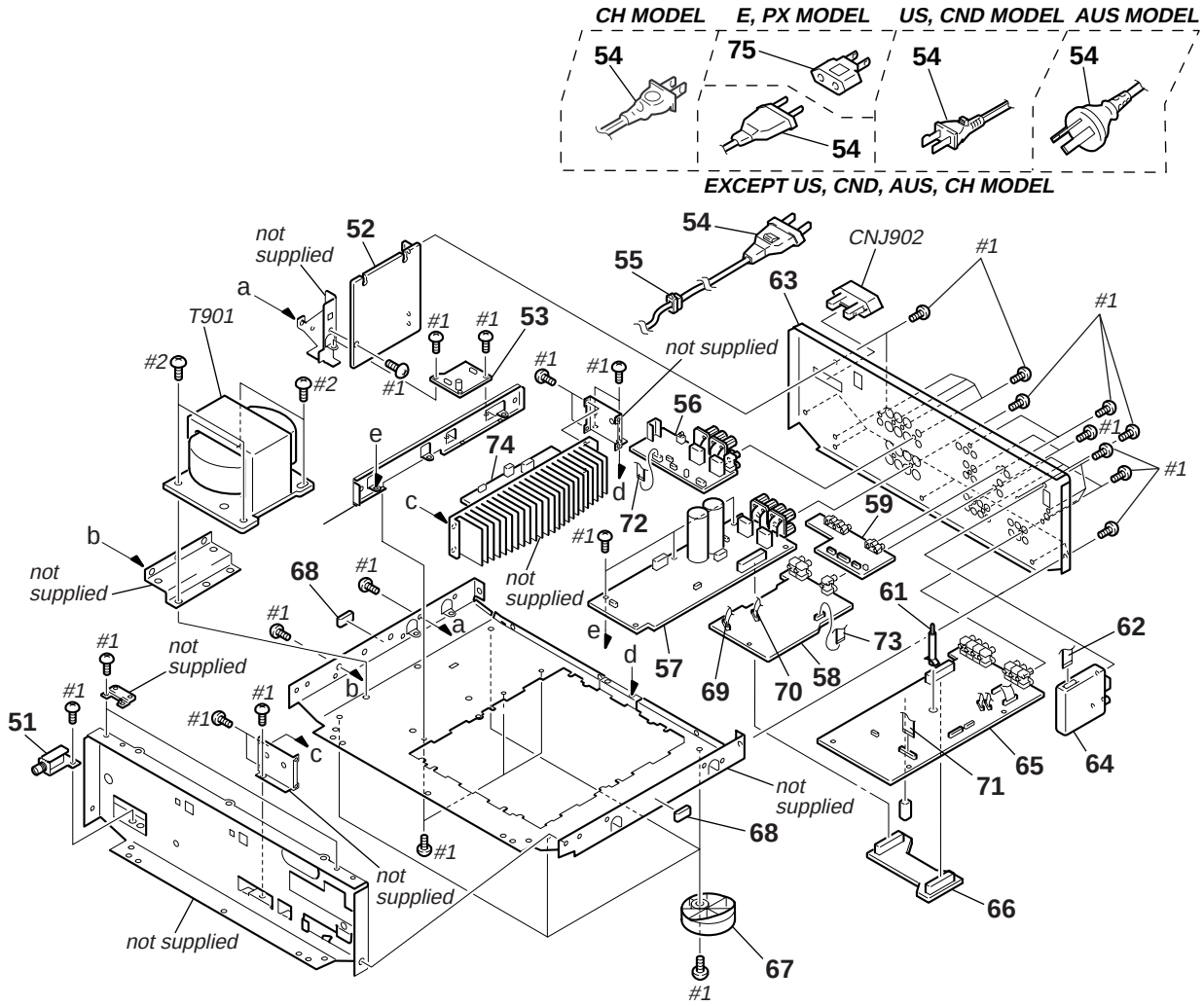
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remarks
1	4-957-383-01	KNOB (F14) (BLACK)(EXCEPT CH)	
1	4-957-383-21	KNOB (F14) (GOLD) (CH)	
2	X-4949-627-1	KNOB (VOL) ASSY (BLACK)(EXCEPT CH)	
2	X-4949-750-1	KNOB ASSY (C5)(GOLD)(CH)	
3	4-977-358-02	CUSHION (US,CND,CH)	
4	4-996-698-01	EMBLEM, SONY (SILVER)(EXCEPT CH)	
4	4-996-698-11	EMBLEM, SONY (GOLD)(CH)	
5	X-4949-740-1	PANEL ASSY (U5),FRONT (BLACK)	(US,CND,AUS)
5	X-4949-909-1	PANEL ASSY (SP),FRONT (BLACK)	(E,EA,PX,MY,SP)
5	X-4949-741-1	PANEL ASSY (C5),FRONT (GOLD)(CH)	
6	4-989-850-01	BUTTON (BB)(BLACK)(EXCEPT CH)	
6	4-989-850-12	BUTTON (BB)(GOLD)(CH)	
* 7	1-669-442-11	SP SW BOARD	
* 8	1-669-439-11	SW BOARD	
* 9	A-4407-420-A	DISPLAY BOARD, COMPLETE (MY,SP)	
* 9	A-4407-421-A	DISPLAY BOARD, COMPLETE (E,EA,PX)	
* 9	A-4407-584-A	DISPLAY BOARD, COMPLETE (US,CND)	
* 9	A-4407-598-A	DISPLAY BOARD, COMPLETE (AUS)	
* 9	A-4407-600-A	DISPLAY BOARD, COMPLETE (CH)	
10	3-710-901-01	SCREW, TAPPING (GOLD)(CH)	
10	3-710-901-11	SCREW, TAPPING (BLACK)(EXCEPT CH)	
* 11	4-982-682-01	CASE (414532)(BLACK)(US,CND,E,EA,PX,AUS)	
11	X-4947-722-1	CASE ASSY (BLACK) (MY,SP)	
12	1-783-776-11	WIRE (FLAT TYPE) (13 CORE)	
13	1-773-022-11	WIRE (FLAT TYPE) (15 CORE)	
* 15	1-669-446-11	VOL BOARD	
* 16	1-669-447-11	BALANCE BOARD	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-669-443-11	H.P BOARD	
* 52	1-669-449-11	STANBY BOARD (US,CND,AUS,MY,SP,CH)	
* 53	A-4407-589-A	STANDBY (2) BOARD, COMPLETE	
⚠54	1-696-847-11	CORD, POWER (AUS)	
⚠54	1-769-743-11	CORD, POWER (US,CND)	
⚠54	1-769-744-11	CORD, POWER (E,EA,PX,MY,SP)	
⚠54	1-782-464-21	CORD, POWER (CH)	
* 55	3-703-244-00	BUSHING (2104), CORD	
* 56	A-4407-602-A	SP BOARD, COMPLETE (MY,SP,CH)	
* 56	A-4407-592-A	SP BOARD, COMPLETE (US,CND,E,EA,PX,AUS)	
* 57	A-4407-595-A	AMP BOARD, COMPLETE (US,CND,E,EA,PX,AUS)	
* 57	A-4407-603-A	AMP BOARD, COMPLETE(MY,SP,CH)	
* 58	A-4407-593-A	SURR BOARD, COMPLETE	
* 59	1-669-435-11	VIDEO BOARD	
61	4-924-098-91	HOLDER, PC BOARD	
62	1-773-008-11	WIRE (FLAT TYPE) (15 CORE)	
* 63	4-999-235-01	PANEL, BACK (US)	
* 63	4-999-235-11	PANEL, BACK (CND)	
* 63	4-999-235-21	PANEL, BACK (AUS)	
* 63	4-999-235-31	PANEL, BACK (E,EA,PX)	
* 63	4-999-235-41	PANEL, BACK (MY,SP)	
* 63	4-999-235-51	PANEL, BACK (CH)	
64	1-693-407-21	TUNER (US,CND,E,EA,PX)	
64	1-693-408-21	TUNER (AUS,MY,SP,CH)	

Ref. No.	Part No.	Description	Remarks
* 65	A-4407-596-A	INPUT BOARD, COMPLETE (US,CND,E,EA,PX,AUS)	
* 65	A-4407-604-A	INPUT BOARD,COMPLETE(MY,SP,CH)	
* 66	1-669-441-11	CONNECTOR BOARD	
67	X-4947-207-1	FOOT ASSY (F50150S) (E,EA,PX,AUS,MY,SP)	
67	X-4947-208-1	FOOT ASSY (F50150S) (US,CND)	
67	X-4947-547-1	FOOT ASSY (F50150S) (CH)	
68	4-985-642-01	CUSHION	
69	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
70	1-765-321-11	WIRE (FLAT TYPE) (9 CORE)	
71	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
72	1-769-877-11	WIRE (FLAT TYPE) (7 CORE)	
73	1-773-022-11	WIRE (FLAT TYPE) (15 CORE)	
* 74	A-4407-590-A	REARAMP BOARD, COMPLETE	
⚠75	1-569-008-11	ADAPTOR, CONVERSION 2P (E,PX)	
⚠75	1-770-019-11	ADAPTOR, CONVERSION 3P (UK)	
⚠CNJ902	1-251-416-11	OUTLET, A.C. (AUS)	
⚠CNJ902	1-526-794-11	OUTLET, AC (MY,SP)	
⚠T901	1-431-809-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-810-11	TRANSFORMER, POWER (CND)	
⚠T901	1-431-811-11	TRANSFORMER, POWER (MY,SP,CH)	
⚠T901	1-431-812-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-813-11	TRANSFORMER, POWER (E,EA,PX)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

AMP

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation
  CND : Canadian MY : Malaysia
  AUS : Australian SP : Singapore
  CH : Chinese EA : Saudi Arabia

Ref. No.	Part No.	Description			Remarks
*	A-4407-595-A	AMP BOARD, COMPLETE			
		**********			
					(US,CND,E,EA,PX,AUS)
*	A-4407-603-A	AMP BOARD, COMPLETE(MY,SP,CH)			
		**********			
	1-533-293-11	FUSE HOLDER			
		< CAPACITOR >			
C501	1-126-965-11	ELECT	22uF	20%	50V
C520	1-126-967-11	ELECT	47uF	20%	50V
C521	1-107-597-11	CERAMIC	22PF	10%	500V
C522	1-107-597-11	CERAMIC	22PF	10%	500V
C523	1-162-286-31	CERAMIC	220PF	10%	50V
C524	1-126-964-11	ELECT	10uF	20%	50V
C525	1-136-157-00	FILM	0.022uF	5%	50V
C526	1-136-153-00	FILM	0.01uF	5%	50V
C570	1-126-967-11	ELECT	47uF	20%	50V
C571	1-107-597-11	CERAMIC	22PF	10%	500V
C572	1-107-597-11	CERAMIC	22PF	10%	500V
C573	1-162-286-31	CERAMIC	220PF	10%	50V
C574	1-126-964-11	ELECT	10uF	20%	50V
C575	1-136-157-00	FILM	0.022uF	5%	50V
C576	1-136-153-00	FILM	0.01uF	5%	50V
C590	1-126-935-11	ELECT	470uF	20%	6.3V
C620	1-126-967-11	ELECT	47uF	20%	50V
C621	1-107-597-11	CERAMIC	22PF	10%	500V
C622	1-107-597-11	CERAMIC	22PF	10%	500V
C623	1-162-286-31	CERAMIC	220PF	10%	50V
C625	1-136-157-00	FILM	0.022uF	5%	50V
C801	1-126-967-11	ELECT	47uF	20%	50V
C803	1-109-932-11	ELECT(BLOCK)	10000uF	20%	71V
					(US,CND,E,EA,PX,AUS)
C803	1-117-950-11	ELECT	10000uF	20%	63V
					(MY,SP,CH)
C804	1-109-932-11	ELECT(BLOCK)	10000uF	20%	71V
					(US,CND,E,EA,PX,AUS)
C804	1-117-950-11	ELECT	10000uF	20%	63V
					(MY,SP,CH)
C805	1-130-781-00	FILM	0.22uF	10%	100V
C806	1-130-781-00	FILM	0.22uF	10%	100V
C811	1-126-952-11	ELECT	1000uF	20%	35V
C812	1-126-951-11	ELECT	470uF	20%	35V
C813	1-126-967-11	ELECT	47uF	20%	50V
C817	1-126-967-11	ELECT	47uF	20%	50V
C818	1-126-967-11	ELECT	47uF	20%	50V

Ref. No.	Part No.	Description		Remarks
CC48	1-164-096-11	CERAMIC	0.01uF	50V
CC49	1-164-096-11	CERAMIC	0.01uF	50V
CC98	1-164-096-11	CERAMIC	0.01uF	50V
CC99	1-164-096-11	CERAMIC	0.01uF	50V
		< CONNECTOR >		
* CND803	1-564-340-00	PIN, CONNECTOR 6P		
* CND805	1-564-341-11	PIN, CONNECTOR 7P		
CNS651	1-784-806-11	HOUSING,CONNECTOR(PC BOARD)13P		
CNS804	1-568-439-11	SOCKET, CONNECTOR 7P		
* CNV801	1-564-243-11	PIN, CONNECTOR 6P		
* CNV802	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P		
		< DIODE >		
D501	8-719-911-19	DIODE	1SS119	
D502	8-719-109-54	DIODE	RD2.2ES-B2	
D503	8-719-109-54	DIODE	RD2.2ES-B2	
D504	8-719-911-19	DIODE	1SS119	
D505	8-719-911-19	DIODE	1SS119	
D506	8-719-911-19	DIODE	1SS119	
D545	8-719-911-19	DIODE	1SS119	
D546	8-719-911-19	DIODE	1SS119	
D547	8-719-911-19	DIODE	1SS119	
D548	8-719-911-19	DIODE	1SS119	
D549	8-719-911-19	DIODE	1SS119	
D551	8-719-911-19	DIODE	1SS119	
D552	8-719-109-54	DIODE	RD2.2ES-B2	
D553	8-719-109-54	DIODE	RD2.2ES-B2	
D554	8-719-911-19	DIODE	1SS119	
D555	8-719-911-19	DIODE	1SS119	
D556	8-719-911-19	DIODE	1SS119	
D601	8-719-911-19	DIODE	1SS119	
D602	8-719-109-54	DIODE	RD2.2ES-B2	
D603	8-719-109-54	DIODE	RD2.2ES-B2	
D604	8-719-911-19	DIODE	1SS119	
D608	8-719-911-19	DIODE	1SS119	
D647	8-719-911-19	DIODE	1SS119	
D648	8-719-911-19	DIODE	1SS119	
D801	8-719-302-38	DIODE	RBV-602-01	
D802	8-719-200-82	DIODE	11ES2	
D803	8-719-200-82	DIODE	11ES2	
D804	8-719-200-82	DIODE	11ES2	
D805	8-719-200-82	DIODE	11ES2	
D806	8-719-068-24	DIODE	HZ5.6BP-TK	
D807	8-719-934-17	DIODE	HZS27-1L	

Ref. No.	Part No.	Description	Remarks
		< TERMINAL >	
* EB702	1-537-738-21	TERMINAL, EARTH	
* EB703	1-537-738-21	TERMINAL, EARTH	
		< FUSE >	
⚠F801	1-532-506-51	FUSE TIME LAG 6.3A/250V(EXCEPT US,CND)	
⚠F801	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5) 8A/125V (US,CND)	
⚠F802	1-532-506-51	FUSE TIME LAG 6.3A/250V(EXCEPT US,CND)	
⚠F802	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5) 8A/125V (US,CND)	
⚠F803	1-532-504-51	FUSE TIME LAG 4A/250V (EXCEPT US,CND)	
⚠F803	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (US,CND)	
⚠F804	1-532-504-51	FUSE TIME LAG 4A/250V (EXCEPT US,CND)	
⚠F804	1-533-419-11	FUSE, GLASS CYLINDRICAL(DIA.5) 4A/125V (US,CND)	
		< IC >	
IC809	8-759-708-05	IC NJM78L05A	
		< COIL >	
L501	1-420-872-00	COIL, AIR-CORE (US,CND,E,EA,PX,AUS)	
L501	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
L551	1-420-872-00	COIL, AIR-CORE (US,CND,E,EA,PX,AUS)	
L551	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
		< TRANSISTOR >	
Q504	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q506	8-749-010-25	IC MN2488-OPY-M	
Q507	8-749-010-26	IC MP1620-OPY-M	
Q508	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q509	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q510	8-729-900-63	TRANSISTOR DTA124ES	
Q511	8-729-900-63	TRANSISTOR DTA124ES	
Q546	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q547	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q548	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q549	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q554	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q556	8-749-010-25	IC MN2488-OPY-M	
Q557	8-749-010-26	IC MP1620-OPY-M	
Q558	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q559	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q560	8-729-900-63	TRANSISTOR DTA124ES	
Q561	8-729-900-63	TRANSISTOR DTA124ES	
Q596	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q601	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q604	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q606	8-749-010-25	IC MN2488-OPY-M	
Q607	8-749-010-26	IC MP1620-OPY-M	
Q608	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q612	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q613	8-729-281-53	TRANSISTOR 2SC1815-GR	
Q614	8-729-201-53	TRANSISTOR 2SA1015-GR	
Q615	8-729-900-36	TRANSISTOR DTC124ES	
Q616	8-729-900-36	TRANSISTOR DTC124ES	
Q617	8-729-900-36	TRANSISTOR DTC124ES	
Q618	8-729-900-63	TRANSISTOR DTA124ES	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	

Ref. No.	Part No.	Description			Remarks
		< RESISTOR >			
R501	1-249-432-11	CARBON	18K	5%	1/4W
R503	1-249-432-11	CARBON	18K	5%	1/4W
R504	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-247-840-00	CARBON	2.4K	5%	1/4W
R523	1-249-414-11	CARBON	560	5%	1/4W F
R524	1-249-408-81	CARBON	180	5%	1/4W F
R525	1-249-408-81	CARBON	180	5%	1/4W F
R526	1-233-352-41	ENCAPSULATED COMPONENT			
R527	1-247-850-11	CARBON	6.2K	5%	1/4W
R528	1-249-419-11	CARBON	1.5K	5%	1/4W F
R529	1-247-866-11	CARBON	30K	5%	1/4W
R530	1-249-421-11	CARBON	2.2K	5%	1/4W F
R531	1-249-433-11	CARBON	22K	5%	1/4W
R532	1-249-437-11	CARBON	47K	5%	1/4W
R533	1-249-393-11	CARBON	10	5%	1/4W F
R534	1-249-389-11	CARBON	4.7	5%	1/4W F
R535	1-249-431-11	CARBON	15K	5%	1/4W
R539	1-249-427-11	CARBON	6.8K	5%	1/4W F
R540	1-249-417-11	CARBON	1K	5%	1/4W F
R542	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-425-11	CARBON	4.7K	5%	1/4W F
R548	1-249-429-11	CARBON	10K	5%	1/4W
R549	1-249-393-11	CARBON	10	5%	1/4W F
R551	1-247-881-00	CARBON	120K	5%	1/4W
R552	1-247-881-00	CARBON	120K	5%	1/4W
R571	1-247-840-00	CARBON	2.4K	5%	1/4W
R573	1-249-414-11	CARBON	560	5%	1/4W F
R574	1-249-408-81	CARBON	180	5%	1/4W F
R575	1-249-408-81	CARBON	180	5%	1/4W F
R576	1-233-352-41	ENCAPSULATED COMPONENT			
R577	1-247-850-11	CARBON	6.2K	5%	1/4W
R578	1-249-419-11	CARBON	1.5K	5%	1/4W F
R579	1-247-866-11	CARBON	30K	5%	1/4W
R580	1-249-421-11	CARBON	2.2K	5%	1/4W F
R581	1-249-433-11	CARBON	22K	5%	1/4W
R582	1-249-437-11	CARBON	47K	5%	1/4W
R583	1-249-393-11	CARBON	10	5%	1/4W F
R584	1-249-389-11	CARBON	4.7	5%	1/4W F
R585	1-249-431-11	CARBON	15K	5%	1/4W
R586	1-249-429-11	CARBON	10K	5%	1/4W
R587	1-249-425-11	CARBON	4.7K	5%	1/4W F
R588	1-249-393-11	CARBON	10	5%	1/4W F
R589	1-249-432-11	CARBON	18K	5%	1/4W
R590	1-249-432-11	CARBON	18K	5%	1/4W
R605	1-249-429-11	CARBON	10K	5%	1/4W
R606	1-249-393-11	CARBON	10	5%	1/4W F
R607	1-216-456-00	METAL OXIDE	820	5%	2W F
R621	1-247-840-00	CARBON	2.4K	5%	1/4W
R622	1-247-881-00	CARBON	120K	5%	1/4W
R623	1-249-414-11	CARBON	560	5%	1/4W F
R624	1-249-408-81	CARBON	180	5%	1/4W F
R625	1-249-408-81	CARBON	180	5%	1/4W F
R626	1-233-352-41	ENCAPSULATED COMPONENT			
R627	1-247-850-11	CARBON	6.2K	5%	1/4W
R628	1-249-419-11	CARBON	1.5K	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
R632	1-249-437-11	CARBON	47K	5%	1/4W
R633	1-249-393-11	CARBON	10	5%	1/4W F
R640	1-215-885-00	METAL OXIDE	68	5%	2W F
R641	1-249-441-11	CARBON	100K	5%	1/4W
R642	1-216-453-00	METAL OXIDE	270	5%	2W F
R643	1-249-441-11	CARBON	100K	5%	1/4W
R644	1-216-456-00	METAL OXIDE	820	5%	2W F
R645	1-249-441-11	CARBON	100K	5%	1/4W
R650	1-249-425-11	CARBON	4.7K	5%	1/4W F
R739	1-215-868-00	METAL OXIDE	680	5%	1W F
R789	1-215-868-00	METAL OXIDE	680	5%	1W F
R802	1-249-401-11	CARBON	47	5%	1/4W F
R803	1-247-843-11	CARBON	3.3K	5%	1/4W
RR48	1-249-393-11	CARBON	10	5%	1/4W F
RR49	1-249-393-11	CARBON	10	5%	1/4W F
RR98	1-249-393-11	CARBON	10	5%	1/4W F
RR99	1-249-393-11	CARBON	10	5%	1/4W F
		< RELAY >			
RY501	1-515-920-11	RELAY (24V)			
RY502	1-515-920-11	RELAY (24V)			
RY602	1-515-793-11	RELAY			
		< TERMINAL >			
TM501	1-537-922-11	TERMINAL BOARD (SP)(FRONT SPEAKERS) (US,CND,E,EA,PX,AUS)			
TM501	1-694-429-21	TERMINAL BOARD (8P)(FRONT SPEAKERS) (MY,SP,CH)			
**********					
*	1-669-447-11	BALANCE BOARD			
		**********			
		< VARIABLE RESISTOR >			
RV402	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)			
**********					
*	1-669-441-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
CNP207	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
CNP651	1-784-807-11	CONNECTOR, BOARD TO BOARD 13P			
**********					
*	A-4407-420-A	DISPLAY BOARD, COMPLETE (MY,SP)			
		**********			
*	A-4407-421-A	DISPLAY BOARD, COMPLETE (E,EA,PX)			
		**********			
*	A-4407-584-A	DISPLAY BOARD, COMPLETE (US,CND)			
		**********			
*	A-4407-598-A	DISPLAY BOARD, COMPLETE (AUS)			
		**********			
*	A-4407-600-A	DISPLAY BOARD, COMPLETE (CH)			
		**********			
*	3-386-245-11	HOLDER (FL)			
*	4-921-941-01	CUSHION (FL)			

Ref. No.	Part No.	Description			Remarks
		< CAPACITOR >			
C101	1-164-159-11	CERAMIC	0.1uF		50V
C102	1-164-159-11	CERAMIC	0.1uF		50V
C103	1-164-159-11	CERAMIC	0.1uF		50V
C104	1-126-959-11	ELECT	0.47uF	20%	50V
C105	1-164-159-11	CERAMIC	0.1uF		50V
C111	1-126-967-11	ELECT	47uF	20%	16V
C113	1-126-967-11	ELECT	47uF	20%	16V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-104-905-11	CAPACITOR	0.22F		5.5V
C116	1-164-159-11	CERAMIC	0.1uF		50V
C117	1-164-159-11	CERAMIC	0.1uF		50V
C118	1-162-199-31	CERAMIC	10PF	5%	50V
C119	1-162-199-31	CERAMIC	10PF	5%	50V
C120	1-162-199-31	CERAMIC	10PF	5%	50V
C121	1-162-199-31	CERAMIC	10PF	5%	50V
C122	1-162-199-31	CERAMIC	10PF	5%	50V
C123	1-162-199-31	CERAMIC	10PF	5%	50V
C124	1-162-199-31	CERAMIC	10PF	5%	50V
C125	1-162-199-31	CERAMIC	10PF	5%	50V
C126	1-162-199-31	CERAMIC	10PF	5%	50V
C127	1-162-199-31	CERAMIC	10PF	5%	50V
C128	1-162-199-31	CERAMIC	10PF	5%	50V
C129	1-162-199-31	CERAMIC	10PF	5%	50V
C130	1-164-159-11	CERAMIC	0.1uF		50V
C141	1-164-159-11	CERAMIC	0.1uF		50V
C143	1-164-159-11	CERAMIC	0.1uF		50V
CC101	1-162-199-31	CERAMIC	10PF	5%	50V
CC102	1-162-199-31	CERAMIC	10PF	5%	50V
CC103	1-162-199-31	CERAMIC	10PF	5%	50V
CC104	1-162-199-31	CERAMIC	10PF	5%	50V
CC105	1-162-199-31	CERAMIC	10PF	5%	50V
CC106	1-162-199-31	CERAMIC	10PF	5%	50V
CC107	1-162-199-31	CERAMIC	10PF	5%	50V
CC108	1-162-199-31	CERAMIC	10PF	5%	50V
CC109	1-162-199-31	CERAMIC	10PF	5%	50V
CC110	1-162-199-31	CERAMIC	10PF	5%	50V
CC111	1-162-199-31	CERAMIC	10PF	5%	50V
CC112	1-162-199-31	CERAMIC	10PF	5%	50V
CC113	1-162-199-31	CERAMIC	10PF	5%	50V
CC114	1-162-199-31	CERAMIC	10PF	5%	50V
CC115	1-162-199-31	CERAMIC	10PF	5%	50V
CC116	1-162-199-31	CERAMIC	10PF	5%	50V
CC117	1-162-199-31	CERAMIC	10PF	5%	50V
		< CONNECTOR >			
* CND101	1-564-496-11	PIN, CONNECTOR 3P			
* CND103	1-564-500-11	PIN, CONNECTOR 7P			
* CND104	1-564-498-11	PIN, CONNECTOR 5P			
* CNE102	1-564-519-11	PLUG, CONNECTOR 4P			
CNP103	1-779-365-11	CONNECTOR, PC BOARD (PLUG) 8P			
CNP121	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP123	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNP125	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS102	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
* CNS116	1-568-856-11	SOCKET, CONNECTOR 13P			
* CNS117	1-568-858-11	SOCKET, CONNECTOR 15P			

Ref. No.	Part No.	Description				Remarks
		< DIODE >				
D107	8-719-911-19	DIODE 1SS119				
D108	8-719-911-19	DIODE 1SS119				
D111	8-719-058-64	DIODE SEL5823A-TP15 (TONE)				
D113	8-719-058-64	DIODE SEL5823A-TP15 (SURROUND)				
D114	8-719-058-64	DIODE SEL5823A-TP15 (BASS/TREBLE)				
D115	8-719-058-64	DIODE SEL5823A-TP15 (INDEX)				
D116	8-719-313-45	DIODE SEL6810A-TH10 (MUTING)				
D119	8-719-911-19	DIODE 1SS119				
D120	8-719-911-19	DIODE 1SS119				
D121	8-719-911-19	DIODE 1SS119				
D135	8-719-058-64	DIODE SEL5823A-TP15 (5.1/DVD INPUT)				
D136	8-719-058-64	DIODE SEL5823A-TP15 (BASS BOOST)				
D151	8-719-911-19	DIODE 1SS119				
D152	8-719-911-19	DIODE 1SS119				
D153	8-719-911-19	DIODE 1SS119				
D154	8-719-911-19	DIODE 1SS119				
D184	8-719-911-19	DIODE 1SS119				
		< FILTER >				
FL101	1-517-770-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC101	8-759-459-83	IC NJL55H400				
IC103	8-759-526-69	IC uPD780208GF-017-3BA				
IC106	8-759-962-08	IC BA6208				
		< COIL >				
L101	1-410-509-11	INDUCTOR 10uH				
		< TRANSISTOR >				
Q101	8-729-900-36	TRANSISTOR DTC124ES				
Q102	8-729-900-63	TRANSISTOR DTA124ES				
Q103	8-729-900-36	TRANSISTOR DTC124ES				
Q104	8-729-900-36	TRANSISTOR DTC124ES				
Q105	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q108	8-729-900-36	TRANSISTOR DTC124ES				
Q109	8-729-900-36	TRANSISTOR DTC124ES				
Q110	8-729-900-63	TRANSISTOR DTA124ES				
Q111	8-729-900-63	TRANSISTOR DTA124ES				
Q112	8-729-900-63	TRANSISTOR DTA124ES				
Q113	8-729-900-63	TRANSISTOR DTA124ES				
Q143	8-729-900-80	TRANSISTOR DTC114ES				
		< RESISTOR >				
R101	1-249-417-11	CARBON	1K	5%	1/4W	F
⚠R102	1-249-385-11	CARBON	2.2	5%	1/6W	F
R103	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R104	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R104	1-249-429-11	CARBON	10K	5%	1/4W	
R105	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R106	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R107	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R108	1-247-843-11	CARBON	3.3K	5%	1/4W	
R109	1-247-843-11	CARBON	3.3K	5%	1/4W	

Ref. No.	Part No.	Description				Remarks
R110	1-247-843-11	CARBON	3.3K	5%	1/4W	
R111	1-247-843-11	CARBON	3.3K	5%	1/4W	
R112	1-249-417-11	CARBON	1K	5%	1/4W	F
R113	1-249-441-11	CARBON	100K	5%	1/4W	
R115	1-247-807-31	CARBON	100	5%	1/4W	
R116	1-247-807-31	CARBON	100	5%	1/4W	
R117	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R118	1-247-807-31	CARBON	100	5%	1/4W	
R123	1-247-807-31	CARBON	100	5%	1/4W	
R124	1-249-417-11	CARBON	1K	5%	1/4W	F
R126	1-247-807-31	CARBON	100	5%	1/4W	
R128	1-247-807-31	CARBON	100	5%	1/4W	
R129	1-247-807-31	CARBON	100	5%	1/4W	
R130	1-249-411-11	CARBON	330	5%	1/4W	
R130	1-247-807-31	CARBON	100	5%	1/4W	
R131	1-247-807-31	CARBON	100	5%	1/4W	
R132	1-247-807-31	CARBON	100	5%	1/4W	
R133	1-247-807-31	CARBON	100	5%	1/4W	
R134	1-247-807-31	CARBON	100	5%	1/4W	
R135	1-247-807-31	CARBON	100	5%	1/4W	
R136	1-247-807-31	CARBON	100	5%	1/4W	
R137	1-249-429-11	CARBON	10K	5%	1/4W	
R138	1-247-807-31	CARBON	100	5%	1/4W	
R139	1-247-807-31	CARBON	100	5%	1/4W	
R140	1-247-807-31	CARBON	100	5%	1/4W	
R141	1-247-807-31	CARBON	100	5%	1/4W	
R142	1-247-807-31	CARBON	100	5%	1/4W	
R143	1-247-807-31	CARBON	100	5%	1/4W	
R144	1-247-807-31	CARBON	100	5%	1/4W	
⚠R145	1-249-385-11	CARBON	2.2	5%	1/6W	F
R149	1-249-411-11	CARBON	330	5%	1/4W	
R150	1-249-411-11	CARBON	330	5%	1/4W	
R151	1-249-411-11	CARBON	330	5%	1/4W	
R153	1-249-411-11	CARBON	330	5%	1/4W	
R154	1-249-411-11	CARBON	330	5%	1/4W	
R155	1-249-429-11	CARBON	10K	5%	1/4W	
R156	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R157	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R158	1-249-429-11	CARBON	10K	5%	1/4W	
R159	1-249-429-11	CARBON	10K	5%	1/4W	
R160	1-249-429-11	CARBON	10K	5%	1/4W	
R161	1-249-437-11	CARBON	47K	5%	1/4W	
R162	1-249-433-11	CARBON	22K	5%	1/4W	
R190	1-249-429-11	CARBON	10K	5%	1/4W	
RR10	1-247-843-11	CARBON	3.3K	5%	1/4W	
RR11	1-249-409-11	CARBON	220	5%	1/4W	F
RR12	1-249-411-11	CARBON	330	5%	1/4W	
RR13	1-249-413-11	CARBON	470	5%	1/4W	F
RR14	1-249-415-11	CARBON	680	5%	1/4W	F
RR15	1-249-417-11	CARBON	1K	5%	1/4W	F
RR16	1-249-419-11	CARBON	1.5K	5%	1/4W	F
RR17	1-249-421-11	CARBON	2.2K	5%	1/4W	F
RR18	1-249-425-11	CARBON	4.7K	5%	1/4W	F
RR19	1-249-429-11	CARBON	10K	5%	1/4W	
RR101	1-249-437-11	CARBON	47K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DISPLAY **H.P** **INPUT**

Ref. No.	Part No.	Description			Remarks
RR102	1-249-437-11	CARBON	47K	5%	1/4W
RR103	1-249-437-11	CARBON	47K	5%	1/4W
RR104	1-249-437-11	CARBON	47K	5%	1/4W
RR105	1-249-437-11	CARBON	47K	5%	1/4W
RR106	1-249-437-11	CARBON	47K	5%	1/4W
RR107	1-249-437-11	CARBON	47K	5%	1/4W
RR108	1-249-437-11	CARBON	47K	5%	1/4W
RR109	1-249-437-11	CARBON	47K	5%	1/4W
RR110	1-249-437-11	CARBON	47K	5%	1/4W
RR111	1-249-437-11	CARBON	47K	5%	1/4W
RR112	1-249-437-11	CARBON	47K	5%	1/4W
RR113	1-249-437-11	CARBON	47K	5%	1/4W
RR114	1-249-437-11	CARBON	47K	5%	1/4W
RR115	1-249-437-11	CARBON	47K	5%	1/4W
RR116	1-249-437-11	CARBON	47K	5%	1/4W
RR117	1-249-437-11	CARBON	47K	5%	1/4W
RR118	1-249-437-11	CARBON	47K	5%	1/4W
RR119	1-249-437-11	CARBON	47K	5%	1/4W
RR120	1-249-437-11	CARBON	47K	5%	1/4W
RR121	1-249-437-11	CARBON	47K	5%	1/4W
RR122	1-249-437-11	CARBON	47K	5%	1/4W
RR123	1-249-437-11	CARBON	47K	5%	1/4W
RR124	1-249-437-11	CARBON	47K	5%	1/4W
RR125	1-249-437-11	CARBON	47K	5%	1/4W
RR126	1-249-437-11	CARBON	47K	5%	1/4W
RR127	1-249-437-11	CARBON	47K	5%	1/4W
RR128	1-249-437-11	CARBON	47K	5%	1/4W
RR129	1-249-437-11	CARBON	47K	5%	1/4W
RR130	1-249-409-11	CARBON	220	5%	1/4W F
RR139	1-249-409-11	CARBON	220	5%	1/4W F
RR140	1-249-411-11	CARBON	330	5%	1/4W
RR149	1-249-409-11	CARBON	220	5%	1/4W F
RR150	1-249-411-11	CARBON	330	5%	1/4W
RR158	1-249-409-11	CARBON	220	5%	1/4W F
RR159	1-249-411-11	CARBON	330	5%	1/4W
RR160	1-249-413-11	CARBON	470	5%	1/4W F
RR161	1-249-415-11	CARBON	680	5%	1/4W F
RR162	1-249-417-11	CARBON	1K	5%	1/4W F
RR163	1-249-419-11	CARBON	1.5K	5%	1/4W F
RR164	1-249-421-11	CARBON	2.2K	5%	1/4W F
RR165	1-249-425-11	CARBON	4.7K	5%	1/4W F
RR166	1-249-429-11	CARBON	10K	5%	1/4W
RR167	1-249-435-11	CARBON	33K	5%	1/4W
		< SWITCH >			
S101	1-762-751-11	SWITCH, TACTILE (∧)			
S112	1-762-751-11	SWITCH, TACTILE (∨)			
S113	1-762-751-11	SWITCH, TACTILE (DISPLAY)			
S123	1-762-751-11	SWITCH, TACTILE (<)			
S124	1-762-751-11	SWITCH, TACTILE (>)			
S134	1-762-751-11	SWITCH, TACTILE (MUTING)			
S135	1-762-751-11	SWITCH, TACTILE (SLEEP)			
S136	1-762-751-11	SWITCH, TACTILE (FM MODE)			
S137	1-762-751-11	SWITCH, TACTILE (FM/AM)			
S138	1-762-751-11	SWITCH, TACTILE (TUNING +)			
S139	1-762-751-11	SWITCH, TACTILE (TUNING -)			
S140	1-762-751-11	SWITCH, TACTILE (PRESET +)			
S141	1-762-751-11	SWITCH, TACTILE (PRESET -)			
S142	1-762-751-11	SWITCH, TACTILE (MEMORY)			
S151	1-762-751-11	SWITCH, TACTILE (POWER)			

Ref. No.	Part No.	Description			Remarks
		< VIBRATOR >			
X101	1-577-101-11	VIBRATOR, CERAMIC			
**********					
*	1-669-443-11	H.P BOARD			
		*********			
		< CONNECTOR >			
* CNE751	1-564-519-11	PLUG, CONNECTOR 4P			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE (PHONES)			
**********					
*	A-4407-596-A	INPUT BOARD, COMPLETE			
		**********			(US,CND,E,EA,PX,AUS)
*	A-4407-604-A	INPUT BOARD, COMPLETE (MY,SP,CH)			
		**********			
	7-685-872-09	SCREW +BVTT 3X8 (S)			
		< CAPACITOR >			
C001	1-126-964-11	ELECT	10uF	20%	50V
C002	1-162-282-31	CERAMIC	100PF	10%	50V
C003	1-102-233-00	CERAMIC	33PF	10%	500V
C004	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C005	1-126-933-11	ELECT	100uF	20%	10V
C006	1-162-282-31	CERAMIC	100PF	10%	50V
C050	1-126-933-11	ELECT	100uF	20%	10V
C051	1-126-964-11	ELECT	10uF	20%	50V
C052	1-162-282-31	CERAMIC	100PF	10%	50V
C053	1-102-233-00	CERAMIC	33PF	10%	500V
C054	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C056	1-162-282-31	CERAMIC	100PF	10%	50V
C100	1-126-948-11	ELECT	100uF	20%	35V
C306	1-126-961-11	ELECT	2.2uF	20%	50V
C307	1-126-961-11	ELECT	2.2uF	20%	50V
C308	1-126-934-11	ELECT	220uF	20%	10V
C309	1-126-934-11	ELECT	220uF	20%	10V
C312	1-136-159-00	FILM	0.033uF	5%	50V
C313	1-136-159-00	FILM	0.033uF	5%	50V
C314	1-126-961-11	ELECT	2.2uF	20%	50V
C315	1-126-961-11	ELECT	2.2uF	20%	50V
C316	1-126-933-11	ELECT	100uF	20%	16V
C317	1-126-933-11	ELECT	100uF	20%	16V
C318	1-126-967-11	ELECT	47uF	20%	16V
C319	1-126-967-11	ELECT	47uF	20%	16V
C320	1-126-965-11	ELECT	22uF	20%	50V
C322	1-162-294-31	CERAMIC	0.001uF	10%	50V
C323	1-162-282-31	CERAMIC	100PF	10%	50V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-164-159-11	CERAMIC	0.1uF		50V
C334	1-164-159-11	CERAMIC	0.1uF		50V
C335	1-164-159-11	CERAMIC	0.1uF		50V
C336	1-164-159-11	CERAMIC	0.1uF		50V
C337	1-164-159-11	CERAMIC	0.1uF		50V
C343	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remarks
C344	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C345	1-162-199-31	CERAMIC	10PF	5%	50V
C346	1-162-199-31	CERAMIC	10PF	5%	50V
C349	1-162-199-31	CERAMIC	10PF	5%	50V
C350	1-102-508-91	CERAMIC	10PF	0.5PF	50V
C351	1-126-964-11	ELECT	10uF	20%	50V
C352	1-126-961-11	ELECT	2.2uF	20%	50V
C370	1-126-965-11	ELECT	22uF	20%	50V
C371	1-126-965-11	ELECT	22uF	20%	50V
C431	1-126-960-11	ELECT	1uF	20%	50V
C433	1-126-960-11	ELECT	1uF	20%	50V
C437	1-126-960-11	ELECT	1uF	20%	50V
C439	1-126-960-11	ELECT	1uF	20%	50V
C443	1-126-960-11	ELECT	1uF	20%	50V
C460	1-164-159-11	CERAMIC	0.1uF		50V
C462	1-126-934-11	ELECT	220uF	20%	16V
C463	1-164-159-11	CERAMIC	0.1uF		50V
C464	1-126-934-11	ELECT	220uF	20%	16V
C490	1-126-963-11	ELECT	4.7uF	20%	50V
C508	1-136-495-11	FILM	0.068uF	5%	50V
C509	1-136-153-00	FILM	0.01uF	5%	50V
C510	1-110-335-11	MYLAR	100PF	5%	50V
C511	1-130-476-00	MYLAR	0.0027uF	5%	50V
C512	1-136-157-00	FILM	0.022uF	5%	50V
C513	1-136-171-00	FILM	0.33uF	5%	50V
C514	1-136-159-00	FILM	0.033uF	5%	50V
C558	1-136-495-11	FILM	0.068uF	5%	50V
C559	1-136-153-00	FILM	0.01uF	5%	50V
C560	1-110-335-11	MYLAR	100PF	5%	50V
C561	1-130-476-00	MYLAR	0.0027uF	5%	50V
C562	1-136-157-00	FILM	0.022uF	5%	50V
C563	1-136-171-00	FILM	0.33uF	5%	50V
C564	1-136-159-00	FILM	0.033uF	5%	50V
C594	1-128-560-11	ELECT	22uF	20%	100V
C595	1-128-560-11	ELECT	22uF	20%	100V
C596	1-164-159-11	CERAMIC	0.1uF		50V
C597	1-162-282-31	CERAMIC	100PF	10%	50V
C598	1-126-967-11	ELECT	47uF	20%	16V
C598	1-126-965-11	ELECT	22uF	20%	50V
C599	1-126-967-11	ELECT	47uF	20%	16V
C601	1-126-964-11	ELECT	10uF	20%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C603	1-102-233-00	CERAMIC	33PF	10%	500V
C604	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C605	1-126-933-11	ELECT	100uF	20%	10V
C606	1-162-282-31	CERAMIC	100PF	10%	50V
C610	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-126-964-11	ELECT	10uF	20%	50V
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C653	1-102-233-00	CERAMIC	33PF	10%	500V
C654	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C655	1-126-933-11	ELECT	100uF	20%	10V
C656	1-162-282-31	CERAMIC	100PF	10%	50V
C693	1-126-934-11	ELECT	220uF	20%	10V
C701	1-126-964-11	ELECT	10uF	20%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-102-233-00	CERAMIC	33PF	10%	500V
C704	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C705	1-126-933-11	ELECT	100uF	20%	10V
C706	1-162-282-31	CERAMIC	100PF	10%	50V

Ref. No.	Part No.	Description			Remarks
C710	1-162-282-31	CERAMIC	100PF	10%	50V
C751	1-126-964-11	ELECT	10uF	20%	50V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-102-233-00	CERAMIC	33PF	10%	500V
C754	1-107-584-11	CERAMIC	4PF	0.25PF	500V
C755	1-126-933-11	ELECT	100uF	20%	10V
C756	1-162-282-31	CERAMIC	100PF	10%	50V
C807	1-126-934-11	ELECT	220uF	20%	16V
C808	1-126-934-11	ELECT	220uF	20%	16V
C809	1-126-948-11	ELECT	100uF	20%	35V
C5001	1-126-965-11	ELECT	22uF	20%	50V
C5051	1-126-965-11	ELECT	22uF	20%	50V
CC01	1-162-282-31	CERAMIC	100PF	10%	50V
CC02	1-162-286-31	CERAMIC	220PF	10%	50V
CC04	1-162-282-31	CERAMIC	100PF	10%	50V
CC05	1-162-282-31	CERAMIC	100PF	10%	50V
CC06	1-162-282-31	CERAMIC	100PF	10%	50V
CC51	1-162-282-31	CERAMIC	100PF	10%	50V
CC52	1-162-286-31	CERAMIC	220PF	10%	50V
CC54	1-162-282-31	CERAMIC	100PF	10%	50V
CC55	1-162-282-31	CERAMIC	100PF	10%	50V
CC56	1-162-282-31	CERAMIC	100PF	10%	50V

< CONNECTOR >

*	CND201	1-564-339-00	PIN, CONNECTOR 5P
	CNE202	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
	CNE203	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
	CNE208	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
	CNE209	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
	CNS201	1-569-060-11	SOCKET, CONNECTOR 11P
	CNS202	1-568-442-11	SOCKET, CONNECTOR 9P
	CNS203	1-569-321-11	SOCKET, CONNECTOR 15P
	CNS204	1-568-443-11	SOCKET, CONNECTOR 13P
	CNS205	1-569-323-11	SOCKET, CONNECTOR 19P
	CNS206	1-569-060-11	SOCKET, CONNECTOR 11P
	CNS207	1-784-806-11	HOUSING,CONNECTOR(PC BOARD)13P

< DIODE >

	D301	8-719-911-19	DIODE 1SS119
	D302	8-719-911-19	DIODE 1SS119
	D401	8-719-911-19	DIODE 1SS119
	D402	8-719-911-19	DIODE 1SS119

< TERMINAL >

*	EB301	1-537-738-21	TERMINAL, EARTH

< IC >

	IC001	8-759-326-52	IC uPC2581V
	IC302	8-759-805-14	IC LC7822
	IC303	8-759-636-74	IC M5218AP-22
	IC304	8-759-634-51	IC M5218AP
	IC305	8-759-634-51	IC M5218AP
	IC306	8-759-634-51	IC M5218AP
	IC450	8-759-604-35	IC M5F78M05L
	IC451	8-759-391-87	IC BA78M12P
	IC502	8-759-462-99	IC TC9184P

INPUT

Ref. No.	Part No.	Description	Remarks
IC601	8-759-326-52	IC uPC2581V	
IC701	8-759-326-52	IC uPC2581V	
IC801	8-759-604-40	IC M5F78M15	
IC803	8-759-604-46	IC M5F79M15	
		< JACK >	
J201	1-695-188-31	JACK, PIN 4P (CD/PHONO)	
J202	1-573-028-31	JACK, PIN 4P (TAPE/MD)	
J203	1-785-009-11	JACK, PIN 6P (5.1/DVD INPUT)	
		< TRANSISTOR >	
Q300	8-729-922-37	TRANSISTOR 2SD2144S	
Q301	8-729-922-37	TRANSISTOR 2SD2144S	
Q302	8-729-922-37	TRANSISTOR 2SD2144S	
Q303	8-729-922-37	TRANSISTOR 2SD2144S	
Q304	8-729-922-37	TRANSISTOR 2SD2144S	
Q305	8-729-922-37	TRANSISTOR 2SD2144S	
Q307	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q411	8-729-900-63	TRANSISTOR DTA124ES	
Q414	8-729-900-63	TRANSISTOR DTA124ES	
Q501	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q502	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q551	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q691	8-729-900-80	TRANSISTOR DTC114ES	
Q692	8-729-422-57	TRANSISTOR UN4111	
Q3008	8-729-620-05	TRANSISTOR 2SC2603-EF	
		< RESISTOR >	

Ref. No.	Part No.	Description			Remarks
R001	1-249-417-11	CARBON	1K	5%	1/4W F
R002	1-249-439-11	CARBON	68K	5%	1/4W
R003	1-249-439-11	CARBON	68K	5%	1/4W
R004	1-249-411-11	CARBON	330	5%	1/4W
R051	1-249-417-11	CARBON	1K	5%	1/4W F
R052	1-249-439-11	CARBON	68K	5%	1/4W
R053	1-249-433-11	CARBON	22K	5%	1/4W
R054	1-249-410-11	CARBON	270	5%	1/4W F
R055	1-249-409-11	CARBON	220	5%	1/4W F
R056	1-249-409-11	CARBON	220	5%	1/4W F
R090	1-249-433-11	CARBON	22K	5%	1/4W
R326	1-249-417-11	CARBON	1K	5%	1/4W F
R327	1-249-417-11	CARBON	1K	5%	1/4W F
R330	1-249-417-11	CARBON	1K	5%	1/4W F
R331	1-249-417-11	CARBON	1K	5%	1/4W F
R334	1-249-417-11	CARBON	1K	5%	1/4W F
R335	1-249-417-11	CARBON	1K	5%	1/4W F
R336	1-249-401-11	CARBON	47	5%	1/4W F
R337	1-249-401-11	CARBON	47	5%	1/4W F
R338	1-249-441-11	CARBON	100K	5%	1/4W
R339	1-249-441-11	CARBON	100K	5%	1/4W
R341	1-249-440-11	CARBON	82K	5%	1/4W
R342	1-249-440-11	CARBON	82K	5%	1/4W
R343	1-249-408-11	CARBON	180	5%	1/4W F
R344	1-249-408-11	CARBON	180	5%	1/4W F
R345	1-249-428-11	CARBON	8.2K	5%	1/4W F
R346	1-249-428-11	CARBON	8.2K	5%	1/4W F
R347	1-249-441-11	CARBON	100K	5%	1/4W
R348	1-249-441-11	CARBON	100K	5%	1/4W
R349	1-247-807-31	CARBON	100	5%	1/4W
R350	1-247-807-31	CARBON	100	5%	1/4W
R352	1-249-441-11	CARBON	100K	5%	1/4W
R353	1-249-441-11	CARBON	100K	5%	1/4W
R356	1-249-425-11	CARBON	4.7K	5%	1/4W F
R357	1-247-807-31	CARBON	100	5%	1/4W
R358	1-247-807-31	CARBON	100	5%	1/4W
R359	1-249-417-11	CARBON	1K	5%	1/4W F
R360	1-249-441-11	CARBON	100K	5%	1/4W
R361	1-249-441-11	CARBON	100K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W F
R363	1-249-417-11	CARBON	1K	5%	1/4W F
R364	1-249-429-11	CARBON	10K	5%	1/4W
R365	1-249-429-11	CARBON	10K	5%	1/4W
R366	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-417-11	CARBON	1K	5%	1/4W F
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-249-441-11	CARBON	100K	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W
R371	1-249-441-11	CARBON	100K	5%	1/4W
R372	1-249-441-11	CARBON	100K	5%	1/4W
R373	1-249-441-11	CARBON	100K	5%	1/4W
R374	1-249-417-11	CARBON	1K	5%	1/4W F
R375	1-249-417-11	CARBON	1K	5%	1/4W F
R376	1-249-417-11	CARBON	1K	5%	1/4W F
R377	1-249-417-11	CARBON	1K	5%	1/4W F
R378	1-249-417-11	CARBON	1K	5%	1/4W F
R379	1-249-417-11	CARBON	1K	5%	1/4W F
R380	1-249-419-11	CARBON	1.5K	5%	1/4W F
R381	1-249-419-11	CARBON	1.5K	5%	1/4W F
R382	1-249-419-11	CARBON	1.5K	5%	1/4W F
R383	1-249-419-11	CARBON	1.5K	5%	1/4W F
R384	1-249-419-11	CARBON	1.5K	5%	1/4W F
R385	1-249-419-11	CARBON	1.5K	5%	1/4W F
R386	1-249-441-11	CARBON	100K	5%	1/4W
R387	1-249-440-11	CARBON	82K	5%	1/4W
R388	1-249-425-11	CARBON	4.7K	5%	1/4W F
R389	1-249-425-11	CARBON	4.7K	5%	1/4W F
R390	1-249-441-11	CARBON	100K	5%	1/4W
R391	1-249-429-11	CARBON	10K	5%	1/4W
R392	1-249-425-11	CARBON	4.7K	5%	1/4W F
R393	1-249-425-11	CARBON	4.7K	5%	1/4W F
R394	1-249-441-11	CARBON	100K	5%	1/4W
R395	1-249-429-11	CARBON	10K	5%	1/4W
R396	1-249-433-11	CARBON	22K	5%	1/4W
R397	1-249-433-11	CARBON	22K	5%	1/4W
R398	1-247-895-00	CARBON	470K	5%	1/4W
R399	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-249-436-11	CARBON	39K	5%	1/4W
R462	1-249-436-11	CARBON	39K	5%	1/4W
R483	1-249-441-11	CARBON	100K	5%	1/4W
R486	1-249-440-11	CARBON	82K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W
R508	1-249-441-11	CARBON	100K	5%	1/4W
R509	1-247-903-00	CARBON	1M	5%	1/4W
R510	1-249-426-11	CARBON	5.6K	5%	1/4W
R511	1-249-434-11	CARBON	27K	5%	1/4W
R513	1-249-426-11	CARBON	5.6K	5%	1/4W
R514	1-249-418-11	CARBON	1.2K	5%	1/4W F
R515	1-249-441-11	CARBON	100K	5%	1/4W
R516	1-247-843-11	CARBON	3.3K	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R517	1-247-883-00	CARBON	150K	5%	1/4W
R518	1-249-427-11	CARBON	6.8K	5%	1/4W F
R519	1-249-413-11	CARBON	470	5%	1/4W F
R541	1-249-429-11	CARBON	10K	5%	1/4W
R558	1-249-441-11	CARBON	100K	5%	1/4W
R559	1-247-903-00	CARBON	1M	5%	1/4W
R560	1-249-426-11	CARBON	5.6K	5%	1/4W
R561	1-249-434-11	CARBON	27K	5%	1/4W
R563	1-249-426-11	CARBON	5.6K	5%	1/4W
R564	1-249-418-11	CARBON	1.2K	5%	1/4W F
R565	1-249-441-11	CARBON	100K	5%	1/4W
R566	1-247-843-11	CARBON	3.3K	5%	1/4W
R567	1-247-883-00	CARBON	150K	5%	1/4W
R568	1-249-427-11	CARBON	6.8K	5%	1/4W F
R569	1-249-413-11	CARBON	470	5%	1/4W F
R591	1-249-421-11	CARBON	2.2K	5%	1/4W F
R592	1-249-381-11	CARBON	1	5%	1/4W F
R593	1-249-381-11	CARBON	1	5%	1/4W F
R595	1-247-903-00	CARBON	1M	5%	1/4W
R596	1-249-421-11	CARBON	2.2K	5%	1/4W F
R597	1-247-843-11	CARBON	3.3K	5%	1/4W
R598	1-249-421-11	CARBON	2.2K	5%	1/4W F
R599	1-247-843-11	CARBON	3.3K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-439-11	CARBON	68K	5%	1/4W
R604	1-249-411-11	CARBON	330	5%	1/4W
R651	1-249-429-11	CARBON	10K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-439-11	CARBON	68K	5%	1/4W
R654	1-249-411-11	CARBON	330	5%	1/4W
R690	1-249-433-11	CARBON	22K	5%	1/4W
R694	1-249-425-11	CARBON	4.7K	5%	1/4W F
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-439-11	CARBON	68K	5%	1/4W
R704	1-249-411-11	CARBON	330	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-439-11	CARBON	68K	5%	1/4W
R754	1-249-411-11	CARBON	330	5%	1/4W
R790	1-249-433-11	CARBON	22K	5%	1/4W
R3000	1-247-895-00	CARBON	470K	5%	1/4W
R3001	1-249-433-11	CARBON	22K	5%	1/4W
R3002	1-249-441-11	CARBON	100K	5%	1/4W
R3003	1-249-429-11	CARBON	10K	5%	1/4W
R3004	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3005	1-249-440-11	CARBON	82K	5%	1/4W
R3006	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3007	1-249-441-11	CARBON	100K	5%	1/4W
R3008	1-249-425-11	CARBON	4.7K	5%	1/4W F
R3009	1-249-441-11	CARBON	100K	5%	1/4W
R3010	1-249-434-11	CARBON	27K	5%	1/4W
R3011	1-249-413-11	CARBON	470	5%	1/4W F
R3012	1-249-429-11	CARBON	10K	5%	1/4W
R3013	1-249-429-11	CARBON	10K	5%	1/4W
R3014	1-249-419-11	CARBON	1.5K	5%	1/4W F
R3060	1-249-434-11	CARBON	27K	5%	1/4W
R3062	1-249-429-11	CARBON	10K	5%	1/4W
R3063	1-249-429-11	CARBON	10K	5%	1/4W
R3368	1-249-441-11	CARBON	100K	5%	1/4W
R5002	1-249-429-11	CARBON	10K	5%	1/4W
R5052	1-249-429-11	CARBON	10K	5%	1/4W

< RELAY >

RY301	1-515-614-11	RELAY			

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*	A-4407-590-A	REARAMP BOARD, COMPLETE			

****

< CAPACITOR >

C720	1-126-967-11	ELECT	47uF	20%	16V
C721	1-107-597-11	CERAMIC	22PF	10%	500V
C722	1-107-597-11	CERAMIC	22PF	10%	500V
C723	1-162-286-31	CERAMIC	220PF	10%	50V
C725	1-136-157-00	FILM	0.022uF	5%	50V
C770	1-126-967-11	ELECT	47uF	20%	16V
C771	1-107-597-11	CERAMIC	22PF	10%	500V
C772	1-107-597-11	CERAMIC	22PF	10%	500V
C773	1-162-286-31	CERAMIC	220PF	10%	50V
C775	1-136-157-00	FILM	0.022uF	5%	50V

< CONNECTOR >

CNE711	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
CNE713	1-691-765-11	PLUG (MICRO CONNECTOR) 3P
* CNV711	1-564-241-11	PIN, CONNECTOR (B4P-VH) 4P
* CNV712	1-564-242-00	PIN, CONNECTOR 5P

< DIODE >

D701	8-719-911-19	DIODE 1SS119
D702	8-719-109-51	DIODE RD2.0ES-B2
D703	8-719-109-51	DIODE RD2.0ES-B2
D704	8-719-911-19	DIODE 1SS119
D751	8-719-911-19	DIODE 1SS119
D752	8-719-109-51	DIODE RD2.0ES-B2
D753	8-719-109-51	DIODE RD2.0ES-B2
D754	8-719-911-19	DIODE 1SS119

< TRANSISTOR >

Q704	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q705	8-729-209-15	TRANSISTOR 2SD2012
Q706	8-749-010-25	IC MN2488-OPY-M
Q707	8-749-010-26	IC MP1620-OPY-M
Q708	8-729-140-82	TRANSISTOR 2SA988-PAFAEA
Q754	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q755	8-729-209-15	TRANSISTOR 2SD2012
Q756	8-749-010-25	IC MN2488-OPY-M
Q757	8-749-010-26	IC MP1620-OPY-M
Q758	8-729-140-82	TRANSISTOR 2SA988-PAFAEA

< RESISTOR >

R706	1-247-881-00	CARBON	120K	5%	1/4W
R722	1-247-840-00	CARBON	2.4K	5%	1/4W
R723	1-249-414-11	CARBON	560	5%	1/4W F
R724	1-249-408-11	CARBON	180	5%	1/4W F
R725	1-249-408-11	CARBON	180	5%	1/4W F

REARAMP **SP**

Ref. No.	Part No.	Description				Remarks
R726	1-233-352-41	ENCAPSULATED COMPONENT				
R727	1-247-850-11	CARBON	6.2K	5%	1/4W	
R728	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R732	1-249-437-11	CARBON	47K	5%	1/4W	
R733	1-249-393-11	CARBON	10	5%	1/4W	F
R756	1-247-881-00	CARBON	120K	5%	1/4W	
R772	1-247-840-00	CARBON	2.4K	5%	1/4W	
R773	1-249-414-11	CARBON	560	5%	1/4W	F
R774	1-249-408-11	CARBON	180	5%	1/4W	F
R775	1-249-408-11	CARBON	180	5%	1/4W	F
R776	1-233-352-41	ENCAPSULATED COMPONENT				
R777	1-247-850-11	CARBON	6.2K	5%	1/4W	
R778	1-249-419-11	CARBON	1.5K	5%	1/4W	F
R782	1-249-437-11	CARBON	47K	5%	1/4W	
R783	1-249-393-11	CARBON	10	5%	1/4W	F

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*	A-4407-602-A	SP BOARD, COMPLETE (MY,SP,CH)	
		**********	
*	A-4407-592-A	SP BOARD, COMPLETE (US,CND,E,EA,PX,AUS)	
		**********	
		< CAPACITOR >	
C624	1-126-964-11	ELECT 10uF 20% 50V	
C626	1-136-153-00	FILM 0.01uF 5% 50V	
C724	1-126-964-11	ELECT 10uF 20% 50V	
C726	1-136-153-00	FILM 0.01uF 5% 50V	
C794	1-126-968-11	ELECT 100uF 20% 50V	
C795	1-126-969-11	ELECT 220uF 20% 50V	
		< CONNECTOR >	
* CND602	1-564-337-00	PIN, CONNECTOR 3P	
CNE604	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
CNJ701	1-774-136-11	CONNECTOR, ROUND TYPE 6P (WIRELESS REAR SPEAKER)	
CNS603	1-568-439-11	SOCKET, CONNECTOR 7P	
CNV601	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P	
		< DIODE >	
D543	8-719-911-19	DIODE 1SS119	
D605	8-719-911-19	DIODE 1SS119	
D606	8-719-911-19	DIODE 1SS119	
D607	8-719-911-19	DIODE 1SS119	
D649	8-719-911-19	DIODE 1SS119	
D705	8-719-911-19	DIODE 1SS119	
D706	8-719-911-19	DIODE 1SS119	
D749	8-719-911-19	DIODE 1SS119	
		< IC >	
IC702	8-759-605-01	IC M5F78M18L	
		< JACK >	
J501	1-770-157-21	JACK, PIN 2P (WOOFER)	
		< COIL >	
L601	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
L601	1-420-872-00	COIL, AIR-CORE (US,CND,E,EA,PX,AUS)	
L701	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
L701	1-420-872-00	COIL, AIR-CORE (US,CND,E,EA,PX,AUS)	
L751	1-411-906-11	COIL, AIR-CORE (MY,SP,CH)	
L751	1-420-872-00	COIL, AIR-CORE (US,CND,E,EA,PX,AUS)	

Ref. No.	Part No.	Description				Remarks
		< TRANSISTOR >				
Q544	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q609	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q610	8-729-900-63	TRANSISTOR DTA124ES				
Q611	8-729-900-63	TRANSISTOR DTA124ES				
Q645	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q709	8-729-281-53	TRANSISTOR 2SC1815-GR				
Q710	8-729-900-63	TRANSISTOR DTA124ES				
Q745	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q747	8-729-119-79	TRANSISTOR 2SC2785-FEK				
Q748	8-729-030-19	TRANSISTOR 2SB1640				
		< RESISTOR >				
R543	1-249-429-11	CARBON	10K	5%	1/4W	
R544	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R545	1-249-393-11	CARBON	10	5%	1/4W	F
R546	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R629	1-247-866-11	CARBON	30K	5%	1/4W	
R630	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R631	1-249-433-11	CARBON	22K	5%	1/4W	
R634	1-249-389-11	CARBON	4.7	5%	1/4W	F
R635	1-249-431-11	CARBON	15K	5%	1/4W	
R636	1-249-433-11	CARBON	22K	5%	1/4W	
R646	1-249-432-11	CARBON	18K	5%	1/4W	
R647	1-249-429-11	CARBON	10K	5%	1/4W	
R648	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R649	1-249-393-11	CARBON	10	5%	1/4W	F
R729	1-247-866-11	CARBON	30K	5%	1/4W	
R730	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R731	1-249-433-11	CARBON	22K	5%	1/4W	
R734	1-249-389-11	CARBON	4.7	5%	1/4W	F
R735	1-249-431-11	CARBON	15K	5%	1/4W	
R737	1-249-429-11	CARBON	10K	5%	1/4W	
R738	1-247-887-00	CARBON	220K	5%	1/4W	
R743	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R744	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R745	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R746	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R747	1-249-429-11	CARBON	10K	5%	1/4W	
R748	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R749	1-249-393-11	CARBON	10	5%	1/4W	F
R784	1-249-389-11	CARBON	4.7	5%	1/4W	F
R787	1-249-429-11	CARBON	10K	5%	1/4W	
R788	1-247-887-00	CARBON	220K	5%	1/4W	
		< RELAY >				
RY503	1-515-793-11	RELAY				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
		< TERMINAL >				
TM701	1-694-431-21	TERMINAL BOARD (SURROUND SPEAKERS) (MY,SP,CH)				
TM701	1-537-510-11	TERMINAL BOARD (SURROUND SPEAKERS) (US,CND,E,EA,PX,AUS)				

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Ref. No.	Part No.	Description	Remarks
*	1-669-442-11	SP SW BOARD **********	
		< CONNECTOR >	
* CNS104	1-695-808-11	CONNECTOR, PC BOARD 8P	
		< DIODE >	
D122	8-719-911-19	DIODE 1SS119	
D123	8-719-911-19	DIODE 1SS119	
		< SWITCH >	
S143	1-762-751-11	SWITCH, TACTILE (SET UP)	
S144	1-762-751-11	SWITCH, TACTILE (CURSUR MODE)	
S155	1-762-268-11	SWITCH, ROTARY (SPEAKERS)	
**********			
*	1-669-449-11	STANDBY BOARD **********	
	1-533-217-31	HOLDER, FUSE	
		< CONNECTOR >	
CNJ901	1-540-041-11	OUTLET, AC (NONPOLAR) (2P)(CH)	
CNJ901	1-540-060-11	OUTLET, AC (POLAR)(US,CND,E,EA,PX)	
* CNP905	1-580-230-21	PIN, CONNECTOR (PC BOARD) 2P(AUS,MY,SP)	
CNV901	1-564-321-00	PIN, CONNECTOR 2P	
* CNV902	1-565-792-11	PIN, CONNECTOR 2P	
CNV903	1-568-106-11	PIN, CONNECTOR 4P (E,EA,PX)	
		< DIODE >	
D907	8-719-911-19	DIODE 1SS119	
		< TERMINAL >	
* EB902	1-537-738-21	TERMINAL, EARTH (US,CND)	
		< FUSE >	
⚠F901	1-533-311-11	FUSE, GLASS CYLINDRICAL(DIA.5) 8A/125V (US,CND)	
⚠F901	1-533-504-51	FUSE TIME LAG 4A/250V(EXCEPT US,CND)	
⚠F903	1-532-464-51	FUSE TIME LAG 2.5A/250V (AUS,MY,SP,CH)	
⚠F904	1-532-504-51	FUSE TIME LAG 4A/250V (E,EA,PX)	
		< RESISTOR >	
R901	1-202-725-00	SOLID 3.3M 10% 1/2W (US,CND)	
		< RELAY >	
RY901	1-515-999-11	RELAY, POWER	
		< TRANSFORMER >	
T902	1-450-358-11	TRANSFORMER,POWER (E,EA,PX,AUS,MY,SP,CH)	
T902	1-450-361-11	TRANSFORMER,POWER(US,CND)	

Ref. No.	Part No.	Description	Remarks
		< SWITCH >	
VS901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (E,EA,PX)	
**********			
*	A-4407-589-A	STANDBY (2) BOARD, COMPLETE **********	
		< CAPACITOR >	
C901	1-136-157-00	FILM 0.022uF 5% 50V	
C902	1-136-157-00	FILM 0.022uF 5% 50V	
C903	1-126-768-11	ELECT 2200uF 20% 16V	
C904	1-126-960-11	ELECT 1uF 20% 50V	
C905	1-126-959-11	ELECT 0.47uF 20% 50V	
C906	1-124-464-11	ELECT 0.22uF 20% 50V	
C913	1-164-159-11	CERAMIC 0.1uF 50V	
C914	1-164-159-11	CERAMIC 0.1uF 50V	
C916	1-164-159-11	CERAMIC 0.1uF 50V	
C917	1-164-159-11	CERAMIC 0.1uF 50V	
		< CONNECTOR >	
CNE905	1-691-766-11	PLUG (MICRO CONNECTOR) 4P	
CNE951	1-691-765-11	PLUG (MICRO CONNECTOR) 3P	
		< DIODE >	
D901	8-719-200-82	DIODE 11ES2	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-200-82	DIODE 11ES2	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-911-19	DIODE 1SS119	
D906	8-719-911-19	DIODE 1SS119	
		< TERMINAL >	
* EB900	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC901	8-759-333-83	IC NJM2103D	
		< TRANSISTOR >	
Q901	8-729-119-79	TRANSISTOR 2SC2785-FEK	
Q902	8-729-026-68	TRANSISTOR 2SD2525(TP)	
		< RESISTOR >	
R902	1-249-429-11	CARBON 10K 5% 1/4W	
R903	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R904	1-249-417-11	CARBON 1K 5% 1/4W F	
R905	1-249-428-11	CARBON 8.2K 5% 1/4W F	
R906	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R908	1-249-433-11	CARBON 22K 5% 1/4W	
R909	1-249-439-11	CARBON 68K 5% 1/4W	
R910	1-249-437-11	CARBON 47K 5% 1/4W	
R912	1-249-430-11	CARBON 12K 5% 1/4W	
**********			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SURR

Ref. No.	Part No.	Description			Remarks
*	A-4407-593-A	SURR BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C10	1-162-282-31	CERAMIC	100PF	10%	50V
C11	1-162-282-31	CERAMIC	100PF	10%	50V
C60	1-162-282-31	CERAMIC	100PF	10%	50V
C61	1-162-282-31	CERAMIC	100PF	10%	50V
C300	1-124-589-11	ELECT	47uF	20%	16V
C301	1-162-282-31	CERAMIC	100PF	10%	50V
C302	1-162-294-31	CERAMIC	0.001uF	10%	50V
C303	1-124-589-11	ELECT	47uF	20%	16V
C355	1-126-934-11	ELECT	220uF	20%	16V
C356	1-126-933-11	ELECT	100uF	20%	16V
C357	1-126-514-11	ELECT	22uF	20%	10V
C358	1-126-514-11	ELECT	22uF	20%	10V
C400	1-102-951-00	CERAMIC	15PF	5%	50V
C401	1-136-165-00	FILM	0.1uF	5%	50V
C402	1-102-852-91	CERAMIC	47PF	5%	50V
C403	1-130-469-00	MYLAR	680PF	5%	50V
C404	1-136-157-00	FILM	0.022uF	5%	50V
C405	1-102-973-00	CERAMIC	100PF	5%	50V
C406	1-102-953-00	CERAMIC	18PF	5%	50V
C407	1-136-161-00	FILM	0.047uF	5%	50V
C408	1-126-934-11	ELECT	220uF	20%	16V
C409	1-124-261-00	ELECT	10uF	20%	50V
C410	1-126-934-11	ELECT	220uF	20%	16V
C411	1-124-261-00	ELECT	10uF	20%	50V
C412	1-136-164-00	FILM	0.082uF	5%	50V
C413	1-124-465-00	ELECT	0.47uF	20%	50V
C414	1-124-261-00	ELECT	10uF	20%	50V
C415	1-130-477-00	MYLAR	0.0033uF	5%	50V
C416	1-136-177-00	FILM	1uF	5%	50V
C417	1-162-294-31	CERAMIC	0.001uF	10%	50V
C418	1-124-261-00	ELECT	10uF	20%	50V
C419	1-136-164-00	FILM	0.082uF	5%	50V
C420	1-126-934-11	ELECT	220uF	20%	16V
C421	1-136-177-00	FILM	1uF	5%	50V
C422	1-124-465-00	ELECT	0.47uF	20%	50V
C423	1-126-301-11	ELECT	1uF	20%	50V
C424	1-126-934-11	ELECT	220uF	20%	16V
C425	1-126-301-11	ELECT	1uF	20%	50V
C426	1-124-252-00	ELECT	0.33uF	20%	50V
C427	1-136-177-00	FILM	1uF	5%	50V
C428	1-136-177-00	FILM	1uF	5%	50V
C429	1-128-551-11	ELECT	22uF	20%	35V
C430	1-162-282-31	CERAMIC	100PF	10%	50V
C432	1-124-261-00	ELECT	10uF	20%	50V
C434	1-136-165-00	FILM	0.1uF	5%	50V
C435	1-136-165-00	FILM	0.1uF	5%	50V
C436	1-124-261-00	ELECT	10uF	20%	50V
C438	1-124-261-00	ELECT	10uF	20%	50V
C440	1-136-165-00	FILM	0.1uF	5%	50V
C441	1-136-165-00	FILM	0.1uF	5%	50V
C442	1-124-261-00	ELECT	10uF	20%	50V
C444	1-124-465-00	ELECT	0.47uF	20%	50V
C445	1-124-465-00	ELECT	0.47uF	20%	50V
C446	1-126-163-11	ELECT	4.7uF	20%	50V
C447	1-126-163-11	ELECT	4.7uF	20%	50V
C448	1-124-465-00	ELECT	0.47uF	20%	50V
C449	1-124-465-00	ELECT	0.47uF	20%	50V
C450	1-126-163-11	ELECT	4.7uF	20%	50V
C451	1-126-163-11	ELECT	4.7uF	20%	50V
C452	1-124-250-11	ELECT	0.15uF	20%	50V
C453	1-124-250-11	ELECT	0.15uF	20%	50V
C454	1-126-162-11	ELECT	3.3uF	20%	50V
C455	1-126-162-11	ELECT	3.3uF	20%	50V
C456	1-124-250-11	ELECT	0.15uF	20%	50V
C457	1-124-250-11	ELECT	0.15uF	20%	50V
C458	1-124-261-00	ELECT	10uF	20%	50V
C459	1-124-261-00	ELECT	10uF	20%	50V
C476	1-102-518-11	CERAMIC	33PF	5%	50V
C495	1-136-165-00	FILM	0.1uF	5%	50V
CC09	1-162-282-31	CERAMIC	100PF	10%	50V
CC12	1-162-282-31	CERAMIC	100PF	10%	50V
CC13	1-162-282-31	CERAMIC	100PF	10%	50V
CC59	1-162-282-31	CERAMIC	100PF	10%	50V
CC62	1-162-282-31	CERAMIC	100PF	10%	50V
CC63	1-162-282-31	CERAMIC	100PF	10%	50V
CNS401	1-569-060-11	SOCKET, CONNECTOR 11P			
CNS402	1-568-442-11	SOCKET, CONNECTOR 9P			
CNS406	1-569-060-11	SOCKET, CONNECTOR 11P			
		< IC >			
IC300	8-759-805-14	IC LC7822			
IC400	8-759-528-36	IC CXA8081S			
IC401	8-759-528-35	IC CXA8079S			
IC403	8-759-805-15	IC LC7823			
IC404	8-759-634-51	IC M5218AP			
IC407	8-759-604-38	IC M5F78M10			
		< JACK >			
J300	1-774-725-11	JACK, PIN 2P (TV/DBS AUDIO IN)			
J301	1-573-028-31	JACK, PIN 4P (VIDEO AUDIO IN/OUT)			
		< COIL >			
L400	1-410-509-11	INDUCTOR	10uH		
L403	1-410-509-11	INDUCTOR	10uH		
		< RESISTOR >			
R301	1-249-417-11	CARBON	1K	5%	1/4W F
R304	1-249-441-11	CARBON	100K	5%	1/4W
R305	1-249-441-11	CARBON	100K	5%	1/4W
R307	1-249-417-11	CARBON	1K	5%	1/4W F
R310	1-249-417-11	CARBON	1K	5%	1/4W F
R312	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-417-11	CARBON	1K	5%	1/4W F
R318	1-249-417-11	CARBON	1K	5%	1/4W F
R319	1-249-417-11	CARBON	1K	5%	1/4W F
R320	1-249-425-11	CARBON	4.7K	5%	1/4W F
R321	1-249-397-11	CARBON	22	5%	1/4W F
R322	1-249-417-11	CARBON	1K	5%	1/4W F
R323	1-249-397-11	CARBON	22	5%	1/4W F
R400	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description				Remarks
R401	1-249-436-11	CARBON	39K	5%	1/4W	
R402	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R403	1-249-417-11	CARBON	1K	5%	1/4W	F
R451	1-249-435-11	CARBON	33K	5%	1/4W	
R458	1-249-436-11	CARBON	39K	5%	1/4W	
**********						
*	1-669-439-11	SW BOARD				
		********				
		< CONNECTOR >				
CNS122	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS124	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
CNS126	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P				
		< DIODE >				
D132	8-719-058-64	DIODE SEL5823A-TP15 (TUNER)				
D133	8-719-058-64	DIODE SEL5823A-TP15 (VIDEO)				
D134	8-719-058-64	DIODE SEL5823A-TP15 (PHONO)				
D137	8-719-058-64	DIODE SEL5823A-TP15 (CD)				
D138	8-719-058-64	DIODE SEL5823A-TP15 (TV/LD)				
D139	8-719-058-64	DIODE SEL5823A-TP15 (TAPE/MD)				
		< RESISTOR >				
R152	1-249-411-11	CARBON	330	5%	1/4W	
RR131	1-249-411-11	CARBON	330	5%	1/4W	
RR132	1-249-413-11	CARBON	470	5%	1/4W	F
RR133	1-249-415-11	CARBON	680	5%	1/4W	F
RR134	1-249-417-11	CARBON	1K	5%	1/4W	F
RR135	1-249-419-11	CARBON	1.5K	5%	1/4W	F
RR136	1-249-421-11	CARBON	2.2K	5%	1/4W	F
RR137	1-249-425-11	CARBON	4.7K	5%	1/4W	F
RR138	1-249-429-11	CARBON	10K	5%	1/4W	
RR141	1-249-413-11	CARBON	470	5%	1/4W	F
RR142	1-249-415-11	CARBON	680	5%	1/4W	F
RR143	1-249-417-11	CARBON	1K	5%	1/4W	F
RR144	1-249-419-11	CARBON	1.5K	5%	1/4W	F
RR145	1-249-421-11	CARBON	2.2K	5%	1/4W	F
RR146	1-249-425-11	CARBON	4.7K	5%	1/4W	F
RR147	1-249-429-11	CARBON	10K	5%	1/4W	
RR148	1-249-435-11	CARBON	33K	5%	1/4W	
RR151	1-249-413-11	CARBON	470	5%	1/4W	F
RR152	1-249-415-11	CARBON	680	5%	1/4W	F
RR153	1-249-417-11	CARBON	1K	5%	1/4W	F
RR154	1-249-419-11	CARBON	1.5K	5%	1/4W	F
RR155	1-249-421-11	CARBON	2.2K	5%	1/4W	F
RR156	1-249-425-11	CARBON	4.7K	5%	1/4W	F
RR157	1-249-429-11	CARBON	10K	5%	1/4W	
		< SWITCH >				
S102	1-762-751-11	SWITCH, TACTILE (DIRECT TUNING)				
S103	1-762-751-11	SWITCH, TACTILE (1)				
S104	1-762-751-11	SWITCH, TACTILE (2)				
S105	1-762-751-11	SWITCH, TACTILE (3)				
S106	1-762-751-11	SWITCH, TACTILE (4)				
S107	1-762-751-11	SWITCH, TACTILE (5)				
S108	1-762-751-11	SWITCH, TACTILE (SOUND FILE ON/OFF)				
S111	1-762-750-11	SWITCH, TACTILE (TUNER)				
S114	1-762-751-11	SWITCH, TACTILE (SHIFT)				
S115	1-762-751-11	SWITCH, TACTILE (6)				
S116	1-762-751-11	SWITCH, TACTILE (7)				
S117	1-762-751-11	SWITCH, TACTILE (GENRE)				
S118	1-762-751-11	SWITCH, TACTILE (5.1/DVD INPUT)				
S125	1-762-751-11	SWITCH, TACTILE (8)				
S126	1-762-751-11	SWITCH, TACTILE (9)				
S127	1-762-751-11	SWITCH, TACTILE (0)				
S128	1-762-751-11	SWITCH, TACTILE (MODE)				
S129	1-762-751-11	SWITCH, TACTILE (BASS BOOST)				
S130	1-762-751-11	SWITCH, TACTILE (TONE ON/OFF)				
S133	1-762-750-11	SWITCH, TACTILE (VIDEO)				
S145	1-762-750-11	SWITCH, TACTILE (PHONO)				
S146	1-762-750-11	SWITCH, TACTILE (CD)				
S147	1-762-750-11	SWITCH, TACTILE (TV/LD)				
S148	1-762-750-11	SWITCH, TACTILE (TAPE/MD)				
**********						
*	1-669-435-11	VIDEO BOARD				
		**********				
		< CAPACITOR >				
C201	1-126-960-11	ELECT	1uF	20%	50V	
C203	1-126-960-11	ELECT	1uF	20%	50V	
C204	1-126-960-11	ELECT	1uF	20%	50V	
C205	1-162-215-31	CERAMIC	47PF	5%	50V	
C206	1-162-215-31	CERAMIC	47PF	5%	50V	
C208	1-126-960-11	ELECT	1uF	20%	50V	
C209	1-164-159-11	CERAMIC	0.1uF		50V	
C210	1-164-159-11	CERAMIC	0.1uF		50V	
C211	1-164-159-11	CERAMIC	0.1uF		50V	
C212	1-164-159-11	CERAMIC	0.1uF		50V	
C213	1-126-933-11	ELECT	100uF	20%	16V	
C214	1-126-933-11	ELECT	100uF	20%	16V	
		< CONNECTOR >				
CNS211	1-569-321-11	SOCKET, CONNECTOR 15P				
		< DIODE >				
D201	8-719-911-19	DIODE 1SS119				
D202	8-719-911-19	DIODE 1SS119				
		< IC >				
IC201	8-759-529-20	IC NJM2296D				
IC202	8-759-700-65	IC NJM79L05A				
		< JACK >				
J201	1-770-337-11	JACK, PIN 3P (VIDEO/MONITOR)				
J203	1-695-317-21	JACK, PIN 2P (5.1/DVD,TV/DBS,VIDEO IN)				
		< RESISTOR >				
R201	1-249-403-11	CARBON	68	5%	1/4W	F
R203	1-249-403-11	CARBON	68	5%	1/4W	F
R204	1-249-403-11	CARBON	68	5%	1/4W	F
R205	1-249-403-11	CARBON	68	5%	1/4W	F
R206	1-249-403-11	CARBON	68	5%	1/4W	F
**********						

VOL

Ref. No.	Part No.	Description	Remarks
*	1-669-446-11	VOL BOARD	
		*********	
		< CONNECTOR >	
CNP101	1-770-388-11	PIN, CONNECTOR (PC BOARD) 4P	
CNS402	1-569-323-11	SOCKET, CONNECTOR 19P	
		< VARIABLE RESISTOR >	
RV401	1-225-446-11	RES, VAR, CARBON 100KX6	(MASTER VOLUME)
**********			
		MISCELLANEOUS	
		**********	
12	1-769-993-11	WIRE (FLAT TYPE) (13 CORE)	
⚠54	1-696-847-11	CORD, POWER (AUS)	
⚠54	1-769-743-11	CORD, POWER (US,CND)	
⚠54	1-769-744-11	CORD, POWER (E,EA,PX,MY,SP)	
⚠54	1-782-464-21	CORD, POWER (CH)	
64	1-693-407-21	TUNER (US,CND,E,EA,PX)	
64	1-693-408-21	TUNER (AUS,MY,SP,CH)	
69	1-769-941-11	WIRE (FLAT TYPE) (11 CORE)	
69	1-769-948-11	WIRE (FLAT TYPE) (11 CORE)	
70	1-765-321-11	WIRE (FLAT TYPE) (9 CORE)	
71	1-773-110-11	WIRE (FLAT TYPE) (19 CORE)	
72	1-769-877-11	WIRE (FLAT TYPE) (7 CORE)	
73	1-773-008-11	WIRE (FLAT TYPE) (15 CORE)	
73	1-773-022-11	WIRE (FLAT TYPE) (15 CORE)	
⚠CNJ902	1-251-416-11	OUTLET, A.C. (AUS)	
⚠CNJ902	1-526-794-11	OUTLET, AC (MY,SP)	
⚠T901	1-431-809-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-810-11	TRANSFORMER, POWER (CND)	
⚠T901	1-431-811-11	TRANSFORMER, POWER (MY,SP,CH)	
⚠T901	1-431-812-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-813-11	TRANSFORMER, POWER (E,EA,PX)	
**********			

Ref. No.	Part No.	Description	Remarks
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-475-135-11	REMOTE COMMANDER RM-U501(CH)	
	8-917-634-90	REMOTE COMMANDER RM-PP401(CND)	
	8-917-635-90	REMOTE COMMANDER RM-U401	(EXCEPT CND,CH)
	4-978-977-01	BATTERY, COVER	
	3-864-029-11	MANUAL, INSTRUCTION (ENGLISH)	
	3-864-029-21	MANUAL, INSTRUCTION (FRENCH)	
	3-864-029-31	MANUAL, INSTRUCTION	(ENGLISH/FRENCH/SPANISH)
	3-864-029-41	MANUAL, INSTRUCTION (ENGLISH/CHINESE)	
	3-864-029-51	MANUAL, INSTRUCTION (ENGLISH/CHINESE)	
	1-501-374-11	ANTENNA, LOOP	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 TT(B)	
#2	7-685-881-09	SCREW +BVTT 4X8 (S)	
#3	7-685-872-09	SCREW +BVTT 3X8 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.